

PLANT IMPROVEMENTS

NOV 2011 ISSUE FOR CONSTRUCTION SUBMITTAL

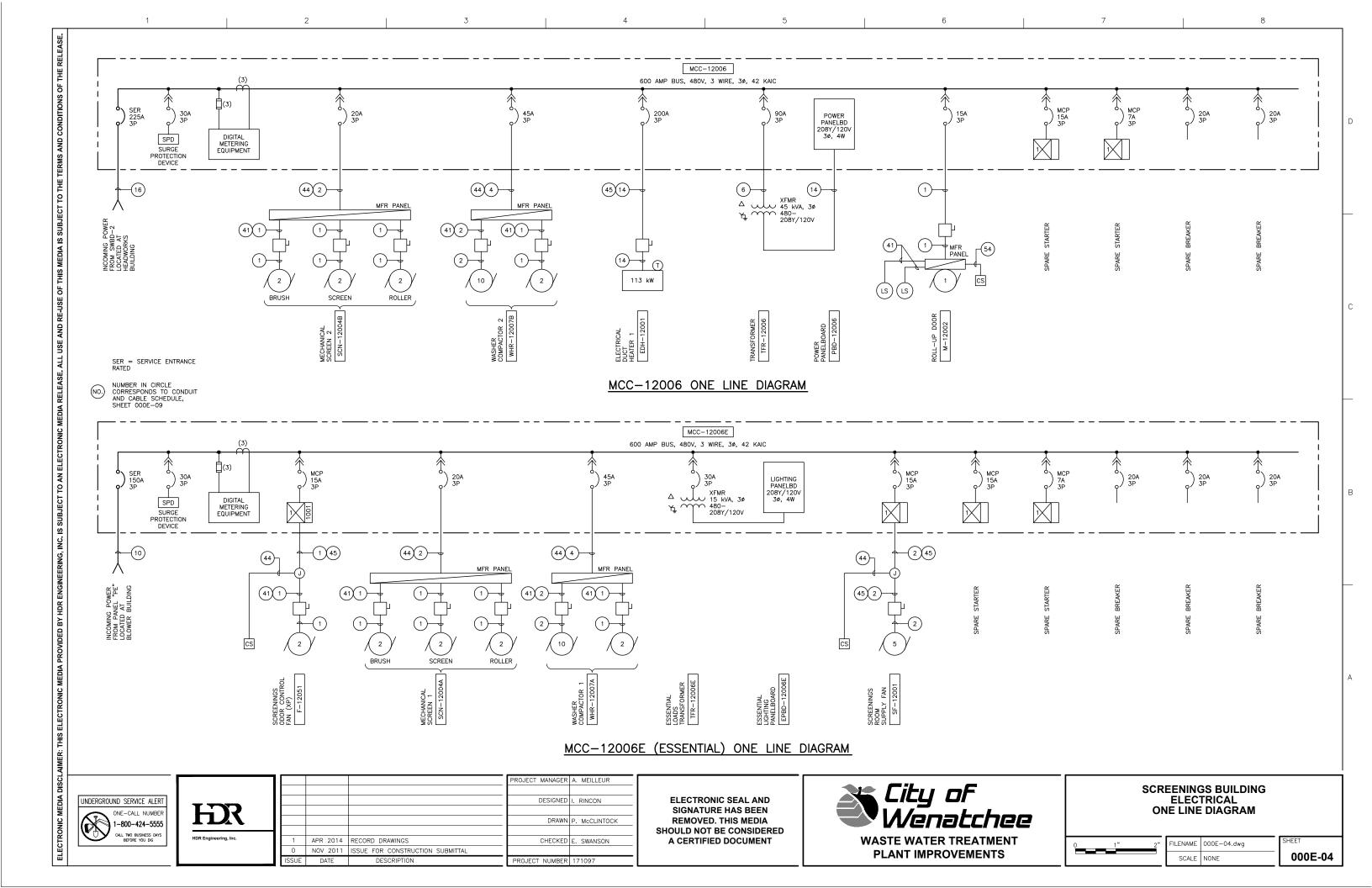
DESCRIPTION

PROJECT NUMBER 171097

DATE

000E-03

SCALE NONE



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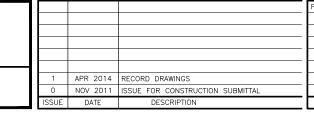
UNDERGROUND SERVICE ALERT

ONE-CALL NUMBER

1-800-424-5555

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PROJECT MANAGER A. MEILLEUR

DESIGNED I. RINCON

DRAWN P. McCLINTOCK

CHECKED E. SWANSON

PROJECT NUMBER 171097

LIGHTING PANELBOARD TRANSFORMER TFR-12006

TFR-12006 BREAKER

> ELECTRONIC SEAL AND SIGNATURE HAS BEEN REMOVED. THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT



SCREENINGS BUILDING ELECTRICAL MCC ELEVATION

0 1" 2" FIL

2"	FILENAME	000E-05.dwg
	SCALE	AS NOTED

000E-05

SPARE STARTER

SPARE STARTER

MECH SCREEN 2 SCN—12004B

SPACE

WASH PRESS 2 WHR—12007B

SURGE PROTECTION DEVICE

ELECTRIC DUCT HEATER EDH—12001

MAIN BREAKER

ROLLUP DOOR M—12002

SPACE

SPACE

CONCRETE CURB WITH CHAMFER

MCC-12006 FRONT VIEW

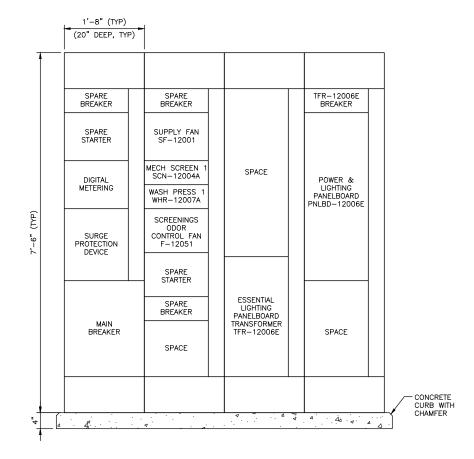
MOTOR CONTROL CENTER ELEVATION

SCALE: NONE

1'-8" (TYP)

(20" DEEP, TYP)

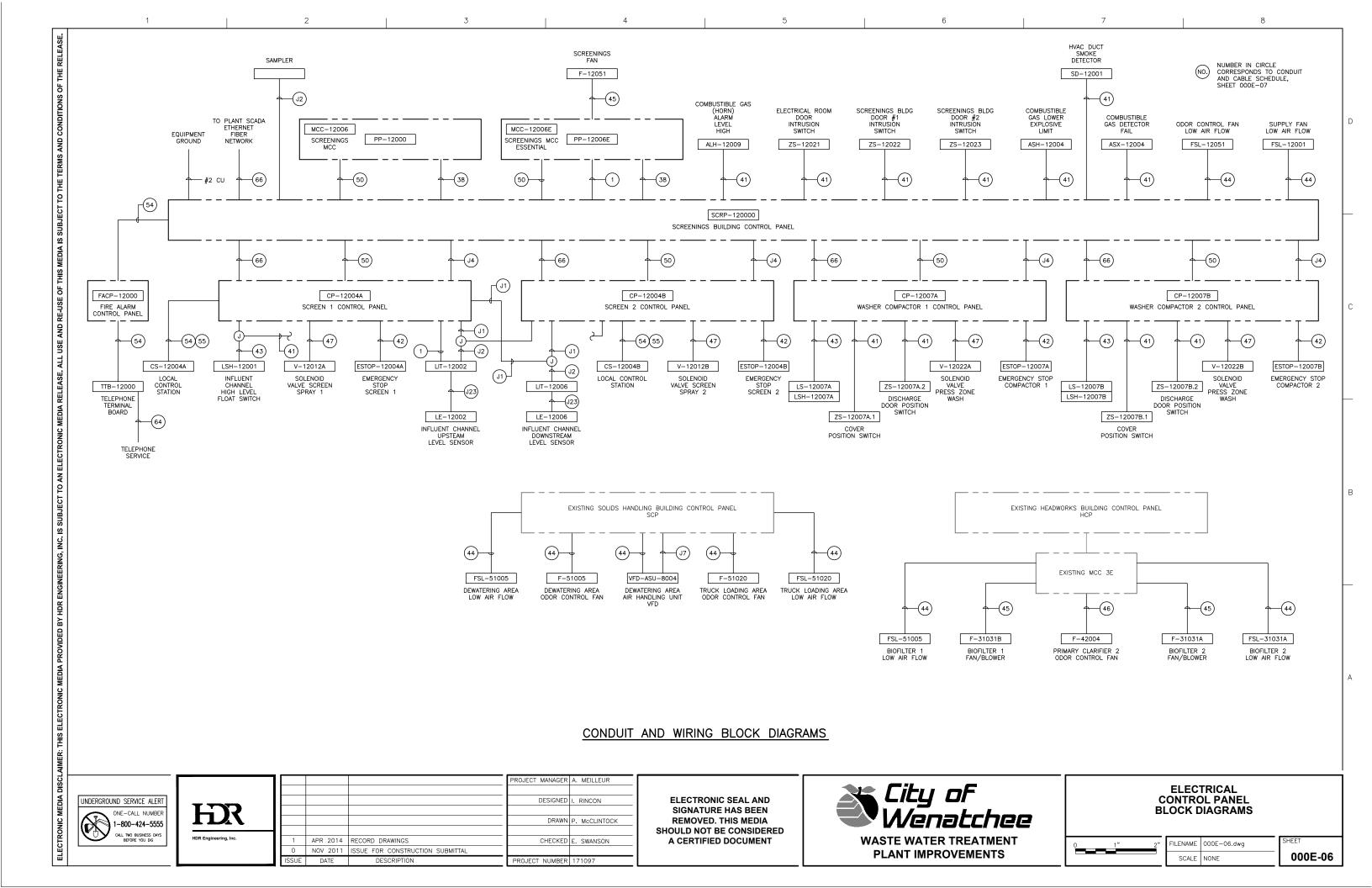
SPARE BREAKER SPARE BREAKER



ESSENTIAL LOADS MCC-12006E FRONT VIEW

MOTOR CONTROL CENTER ELEVATION

SCALE: NONE



	CABLE	CONDUI	T SIZE		
(NO.)	CABLE	WITHOUT CONTROL	WITH CONTROL		
P1	3#12, 1#12 GND	3/4"	1 1/2"		
P2	3#10, 1#10 GND	3/4"	1 1/2"		
P3	3#8, 3#14 GND	1"	2"		
P4	3#6, 3#12 GND	1 1/2"			
P5	3#4, 3#12 GND	1 1/2"			
P6	3#2, 3#10 GND	2"			
P7	3#1, 3#10 GND	2"			
P8	3#1/0, 3#10 GND	2"			
P9	3#2/0, 3#10 GND	2 1/2"			
P10	3#3/0, 3#7 GND	2 1/2"			
P11	3#4/0, 3#7 GND	3"			
P12	2#12, 1#12 GND	3/4"	1 1/2"		
P13	7#10	3/4"			
P14	2#10, 1#10 GND	3/4"			
P15	3#350 KCM, 3#2 GND	3 1/2"			

	CONTROL WIRING						
NO.	CONDUCTORS	CONDUIT SIZE		NO.	CONDUCTORS	CONDUIT SIZE	
40	2#14	3/4"		50	16#14	1"	
41	3#14	3/4"		51	24#14	1"	
42	4#14	3/4"		52	36#14	1 1/2"	
43	5#14	3/4"		53	60#14	2"	
44	6#14	3/4"		54	COORDINATE NO. OF WIRES AND CND		
45	7#14	3/4"			WITH VENDOR SUPPLIED EQUIP		
46	8#14	3/4"		55	VENDOR CABLE	AS REQ'D	
47	9#14	3/4"		61	PLC REMOTE I/O RACK COMM CABLE	2"	
48	10#14	3/4"		62	ANTENNA COAXIAL CABLE ALL DIRECTIONAL	2"	
49	12#14	3/4"		63	RS485 NETWORK CABLE	2"	
				64	TELEPHONE CABLES	2"	
				65	CITY NETWORK CABLE	2"	
				66	FIBER OPTIC CABLE	2"	
				67	CATEGORY 6 ETHERNET CABLE	2"	

CONDUIT AND CABLE NOTES:

- 1. FOR CIRCUITS WITH PARALLEL CONDUCTORS, INCREASE THE EQUIPMENT GROUNDING CONDUCTOR SIZE AS REQUIRED IN NEC 250-122.
- 2. (DISCRETE) CONTROL CONDUCTORS ARE ALLOWED TO ROUTE IN SAME CONDUIT WITH POWER CONDUCTORS OR CABLE WHERE THE POWER CONDUCTORS ARE LESS THAN OR EQUAL TO #8 AWG AND BOTH MUST HOMERUN TO THE SAME PANEL, UNLESS OTHERWISE NOTED ON THE DRAWINGS. MAXIMUM NUMBER OF COMBINED CONDUCTORS IN SAME CONDUIT (8) CONTROL CONDUCTORS AND (4) POWER CONDUCTORS #8 AWG OR LESS. OTHERWISE, PROVIDE A SEPRATE CONDUIT FOR CONTROL CONDUCTORS ONLY. SIZE CONDUIT PER NATIONAL ELECTRICAL CODE REQUIREMENTS.
- WHERE ONLY CONTROL OR INSTRUMENTATION WIRING AND NO POWER IS INDICATED, PROVIDE CONDUIT.
- ANY CIRCUIT NOT IDENTIFIED WITH A MARK NUMBER OR DESCRIPTIVE NOTE IS A BRANCH CIRCUIT REQUIRING 2 OR 3#12, 1#12 GND, 3/4" CONDUIT.
- CIRCUIT SCHEDULES ARE STANDARD SCHEDULES. SOME NUMBERS MAY NOT BE USED.
- WHERE SHIELDED VFD CABLE IS REQUIRED, INCREASE CONDUIT SIZE TO MEET 53% FILL FOR A SINGLE CABLE, 31% FOR 2 CABLES OR 40% FOR 3 OR MORE CONDUITS/CABLES.
- 7. REFER TO SHEET 000Y-08, NETWORK INTERFACE BLOCK DIAGRAM FOR FIBER OPTIC CABLE ROUTING. SIX FIBER, FIBER OPTIC CABLE FOR MULTI-MODE APPLICATION.

CONDUIT AND CABLE LEGEND:

GND GROUND
PWR POWER
SHLD SHIELDED

STSP SHIELDED TWISTED SHIELDED PAIR

STST SHIELDED TWISTED SHIELDED TRIAD

TC TRAY CABLE

TSP TWISTED SHIELDED PAIR

TST TWISTED SHIELDED TRIAD

O.) NUMBER IN CIRCLE CORRESPONDS TO CONDUIT AND CABLE SCHEDULE

	UNSHIELDED CONTROL CABLES							
NO.	CABLE	CONDUIT SIZE		NO.	CABLE	CONDUIT SIZE		
C1	2#14 TC	3/4"		014	24#14 TC	1 1/2"		
C2	3#14 TC	3/4"		C15	30#14 TC	1 1/2"		
С3	4#14 TC	3/4"		C16	36#14 TC	2"		
C4	5#14 TC	1"		C17	2#12 TC	3/4"		
C5	6#14 TC	1"		C18	3#12 TC	3/4"		
C6	7#14 TC	1"		C19	5#12 TC	1"		
C7	8#14 TC	1"		C20	7#12 TC	1"		
C8	9#14 TC	1"		C21	9#12 TC	1"		
С9	10#14 TC	1 1/2"		C22	2#16 TC	3/4"		
C10	12#14 TC	1 1/2"		C23	3#16 TC	3/4"		
C11	14#14 TC	1 1/2"		024	5#16 TC	3/4"		
C12	16#14 TC	1 1/2"		C25	7#16 TC	3/4"		
C13	20#14 TC	1 1/2"		C26	9#16 TC	1"		

	INSTRUMENTATION CABLES							
NO.	CABLE	CONDUIT SIZE		NO.	CABLE	CONDUIT SIZE		
J1	1 CABLE TSP #16	3/4"		J14	1 CABLE STSP, 12 PAIRS, #18	1 1/2"		
J2	2 CABLES TSP #16	3/4"		J15	1 CABLE STSP, 24 PAIRS, #18	2"		
J3	3 CABLES TSP #16	1"		J16	1 CABLE STSP, 36 PAIRS, #18	2"		
J4	4 CABLES TSP #16	1"		J17	1 CABLE STST, 4 TRIADS, #18	1"		
J5	5 CABLES TSP #16	1"		J18	1 CABLE STST, 6 TRIADS, #18	1 1/2"		
J6	6 CABLES TSP #16	1 1/2"		J19	1 CABLE STST, 8 TRIADS, #18	1 1/2"		
J7	1 CABLE TST #16	3/4"		J20	1 CABLE STST, 12 TRIADS, #18	1 1/2"		
J8	2 CABLES TST #16	3/4"		J21	1 CABLE STST, 36 TRIADS, #18	2"		
J9	3 CABLES TST #16	1"		J22	1 CABLE STST, 42 TRIADS, #18	2 1/2"		
J10	4 CABLES TST #16	1"		J23	VENDOR CABLE	3/4"		
J11	1 CABLE STSP, 4 PAIRS, #18	3/4"		J24	REMOTE I/O CABLE PER PLC FURNISHED	1"		
J12	1 CABLE STSP, 6 PAIRS, #18	1"						
J13	1 CABLE STSP, 8 PAIRS, #18	1"						

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1	APR 2014	RECORD DRAWINGS
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL
ISSUE	DATE	DESCRIPTION

	PROJECT MANAGER	A. MEILLEUR	
	DESIGNED	I. RINCON	
	DRAWN	P. McCLINTOCK	ı
			ı
	CHECKED	E. SWANSON	
_	PROJECT NUMBER	171097	

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PLANT IMPROVEMENTS

ELECTRICAL CONDUIT & CABLE SCHEDULE



		_
FILENAME	000E-07.dwg	5
SCALE	NONE	l

000E-07

PANELBOARD PBD-12006E SCHEDULE ENTRANCE: BY MCC MFR PANEL: PBD-12006E MOUNTING: INTEGRAL TO MCC SERVICE: 120/208 VOLTS, 3 PHASE, 4 WIRE, 100% NEUTRAL, MAINS 100 AMP SERVICE ENTRANCE LABEL: NO MAIN DEVICE: 60 AMP CIRCUIT BREAKER, 3 POLE, 18,000 AIC LOCATION: FEEDER SOURCE: TFR-12006E FEEDER SIZE CONNECTED LOAD (VA) OCP CONNECTED LOAD (VA) OCP CIRCUIT IDENTIFICATION NO. IDENTIFICATION (NO.) LTS REC MECH MISC P AMPS MISC MECH REC LTS 1 LTS, ELECTRICAL ROOM 300 20 1 A 1 1 20 900 REC, ELECTRICAL ROOM 2 4 3 LTS, INFLUENT SCREENING ROOM 650 20 1 1 B 1 1 20 800 LTS, INFLUENT SCREENING ROOM 5 EMERGENCY LTS, INFLUENT SCREENING ROOM 100 1 20 REC, INFLUENT SCREENING ROOM 20 400 7 CHANNEL, LTS AND REC 20 1 20 8 1000 EXTERIOR LIGHTS 10 20 C 2 20 12 11 MAINGATE (SWING), GCR-12075A 500 500 NW GATE #1, GCR-12077 14 500 500 15 SPARE 1 B 1 SPARE 16 15 17 18 19 SCRP (CONTROL PANEL) SCRP-12000 SPARE 20 21 SAMPLER, SAMP-12001 1 B 1 1 20 22 500 500 15 1 SPARE 23 MAIN ENTRANCE PEDESTRIAN GATE 300 20 1 1 C 24 26 28 25 SOUTH ENTRANCE PEDESTRIAN GATE 300 20 27 FCU-12001 3 20 NW GATE #2, GCR-12076 750 500 25 750 500 30 32 31 HOT BOX 20 15 300 NW #2 GATE CONTROLLER 33 SPARE 20 35 SPARE 20 36 1 C 37 HEAT PUMP/HEATER 38 39 HEAT PUMP/HEATER 40 42 41 LOAD SUMMARY TOTAL CONNECTED LOAD (VA) - PHASE A (VA) PHASE B (VA) PHASE C (VA)

P	PANELBOARD NO:	PBD-12	2006	PUBLIC A	ART SHO	W PAN	ELB	OA	RD				DATE		5/25/201	1
V	/OLTAGE:	208Y/120)	BUSRA	TING (A):					225	5		ENCLOS	URE:	NEMA 1	
P	PHASE:	3		MAIN OC	DEVICE	(A/PHA	ASE):		225	5		MOUNTI	NG:	IN MCC-12006	
V	VIRE:	4+GND		INTERRU	JPTING F	RATING	(KA	1):		22			LOCATIO	ON:	SCREENINGS BLDG,	
2	200% NEUTRAL:	NO		SERVICE	ENTRA	NCE LA	BEL	L:		NO	0				ELECTRICAL RM	
СКТ		COI	NECTE	D LOAD (OCP			OCP		COI	NECTE	D LOAD (VA)		CI
NO. D	DESCRIPTION	LTS	REC	MECH	MISC	AMPS	Р		AMPS	Р	LTS	REC	MECH	MISC	DESCRIPTION	N
1 L	IGHTING CONTROL PANEL					20	1 /	Α								1
3 8	SPARE					20	1 1	В	20	3					SPARE	2
5 S	SPARE					20	2	С								13
7							,	Α	20	1					SPARE	(
9 D).I. #6 DIGESTER TYPE A1&A2	320				15	1 1	В	15	1				1,000	TO XFMR-A9 (FOR TYPE A9)	1
11	SPARE					15	1 (С	15	1					SPARE L	1
13 IS	SPARE					15	1 /	Α	15	1	33				TOP MAINVIEW PLAT. STAIRS TYPE A10	1
15 D).I. #3 PRIM. CLARIF. #2 TYPE A3	240				15	1 1	В	15	1	107				SOUTH PLATFORM	17
17 D).I. #4 UV HOUSE TYPE A4	236				15	1 (С	15	1	189				LAND SCAPE LIGHTS N. TYPE A13	1
19 D).I. #5 AERATION BASINS TYPE A5	236				15	1 /	Α	15	1	189				LANDSCAPE LIGHTS S. TYPE A13	2
21 L	V SYSTEM 24VDC TYPE A6	100				15	1 1	В	15	1	107				SPARE	2
23 D	J.I. #7 CH. GLASS PNLS. TYPE A7	942				15	1 (С	20	1			500		WATER FEATURE PUMP #1	2
25 N	MAIN VIEW PLATF, CAN, TYPE A8	402				15	1 /	Α	20	1			500		WATER FEATURE PUMP #2	2
27 A	ADMIN. CANOPY TYPE A8	402				15	1 1	В	20	1			500		WATER FEATURE PUMP #3	2
29 S	SPARE					15	1	С	15	1					SPARE	3
31 S	SPARE					15	1 /	Α	15	1					SPARE	3
33 S	SPARE					15	1 1	В	15	1					SPARE	3
35 S	SPARE					20	2	С	20	2					SPARE	3
37							,	Α							1	3
39 S	SPARE					20	2	В	20	2					SPARE	4
41							4	С							1	4
						LO	AD	SU	MMAR	Υ						
		LTS	REC	MECH	MISC	SPAR	E	TC	DTAL						PHASE BALANCE	
CONN	ECTED LOAD (KVA)	4.3	0.0	1.5	1.5			-	7.3		480	LINE-TO	LINE VO	LTS	PHASE A (KVA)	
DEMA	ND FACTOR	1.25	NEC	1.00	1.00	20%	1	-			9	CONNE	CTED AM	PS	PHASE B (KVA)	
DESIG	GN LOAD (KVA)	5.4	0.0	1.5	1.5	1.5			9.8		12	DESIGN	AMPS		PHASE C (KVA)	

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THE RELEASE

RE-USE OF

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			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	I. RINCON
			DRAWN	P. McCLINTOCK
1	APR 2014	RECORD DRAWINGS	CHECKED	E. SWANSON
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		
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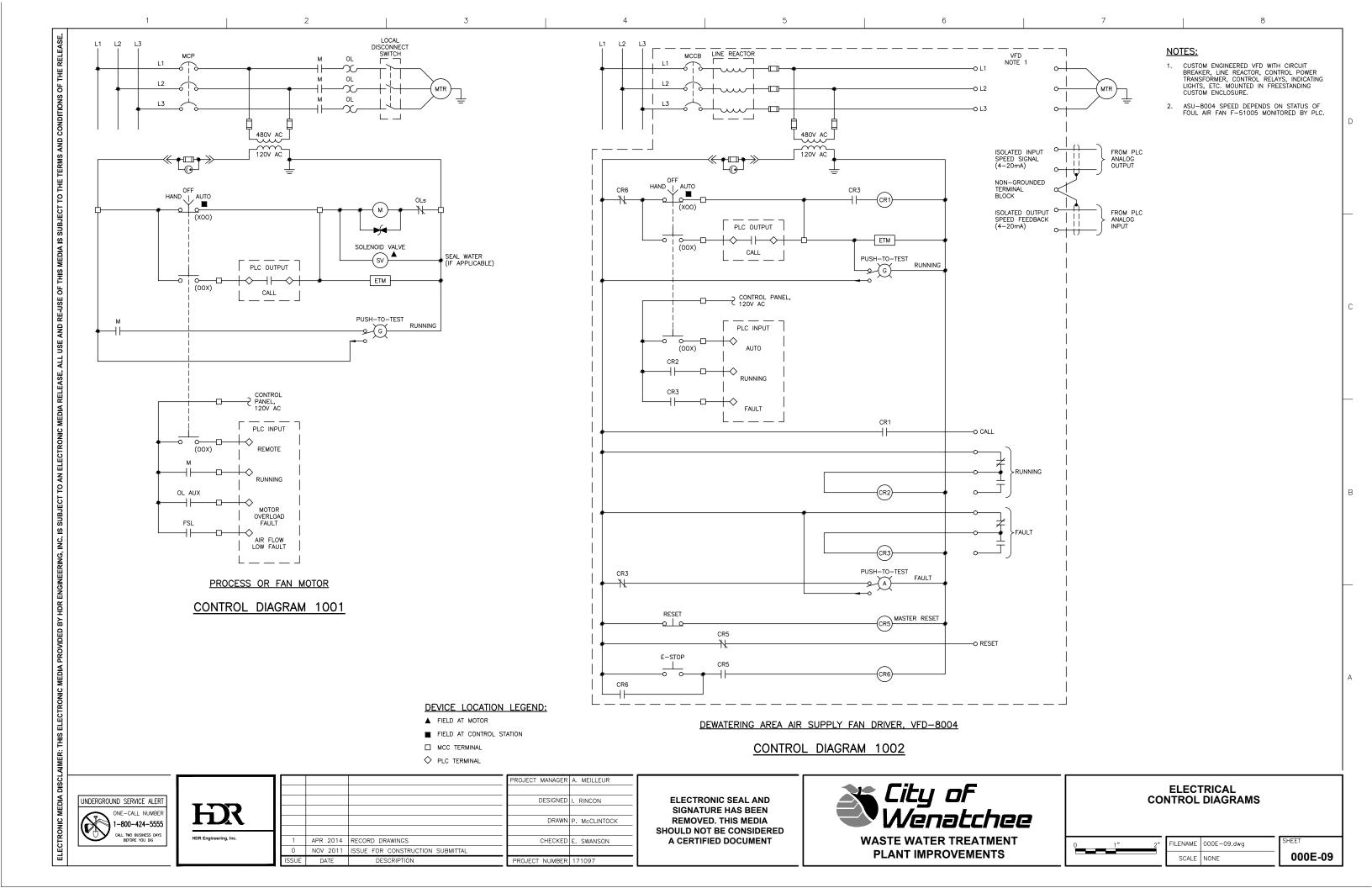


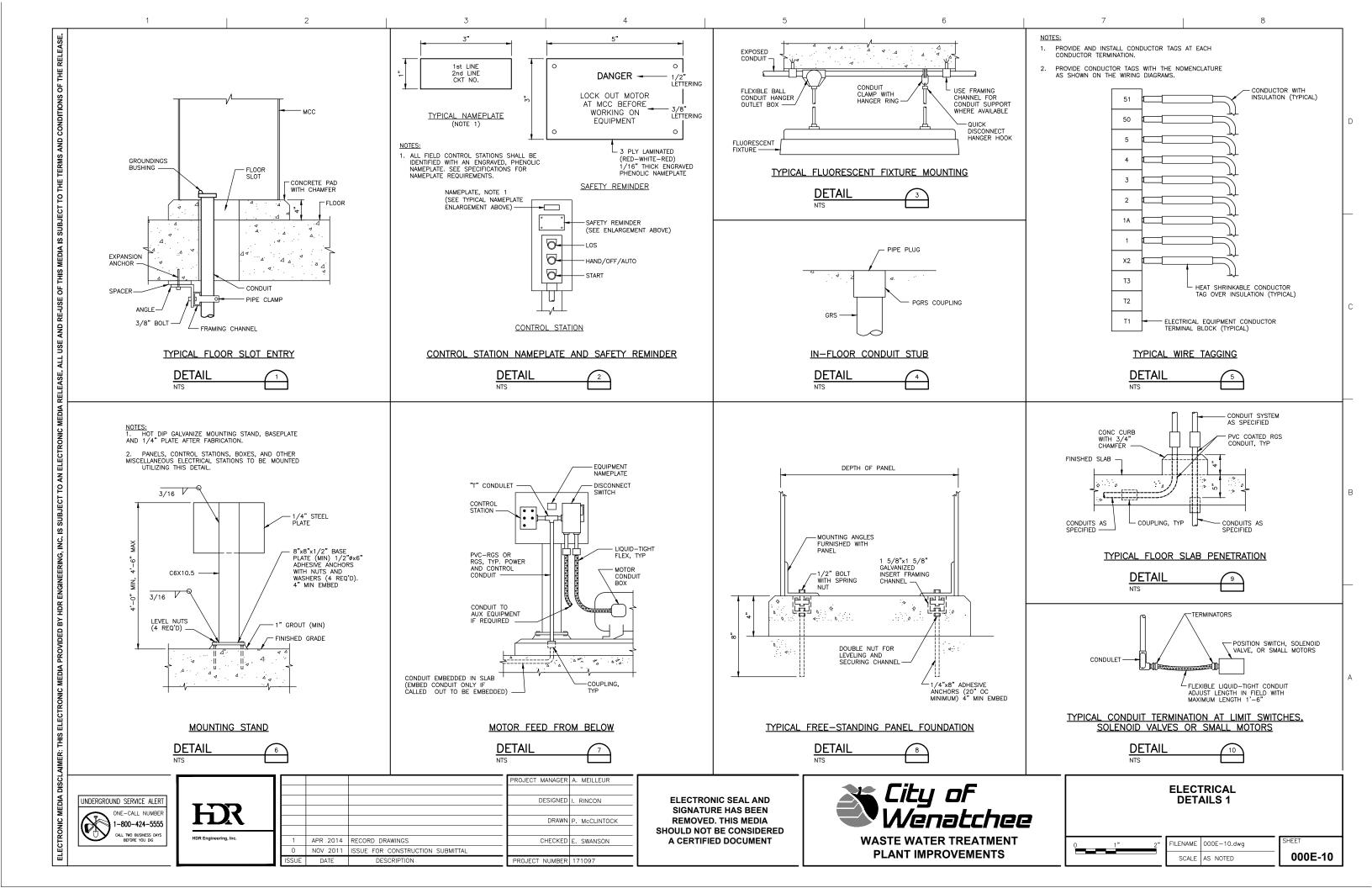
SCREENINGS BUILDING ELECTRICAL PANELBOARD SCHEDULES

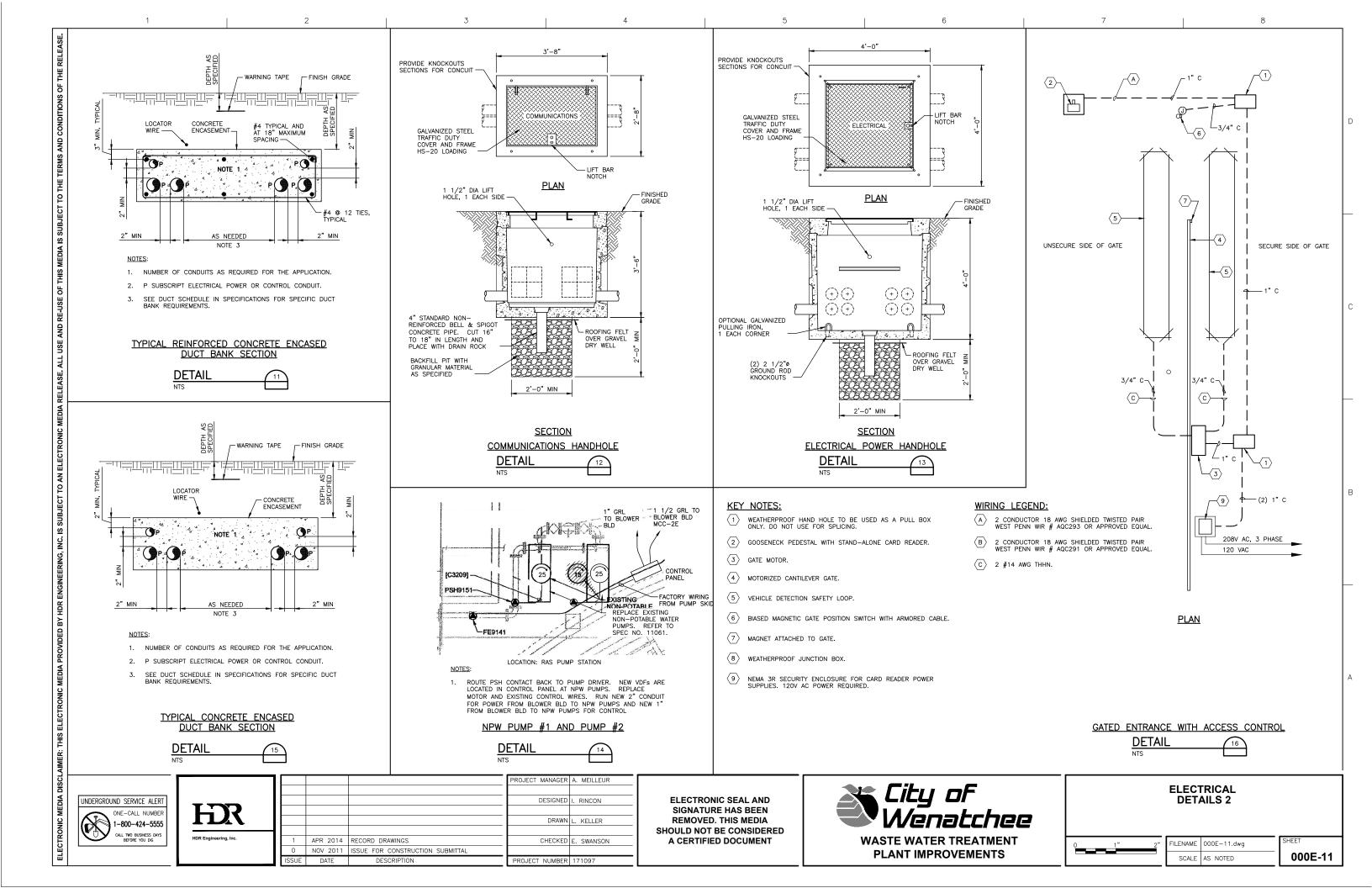


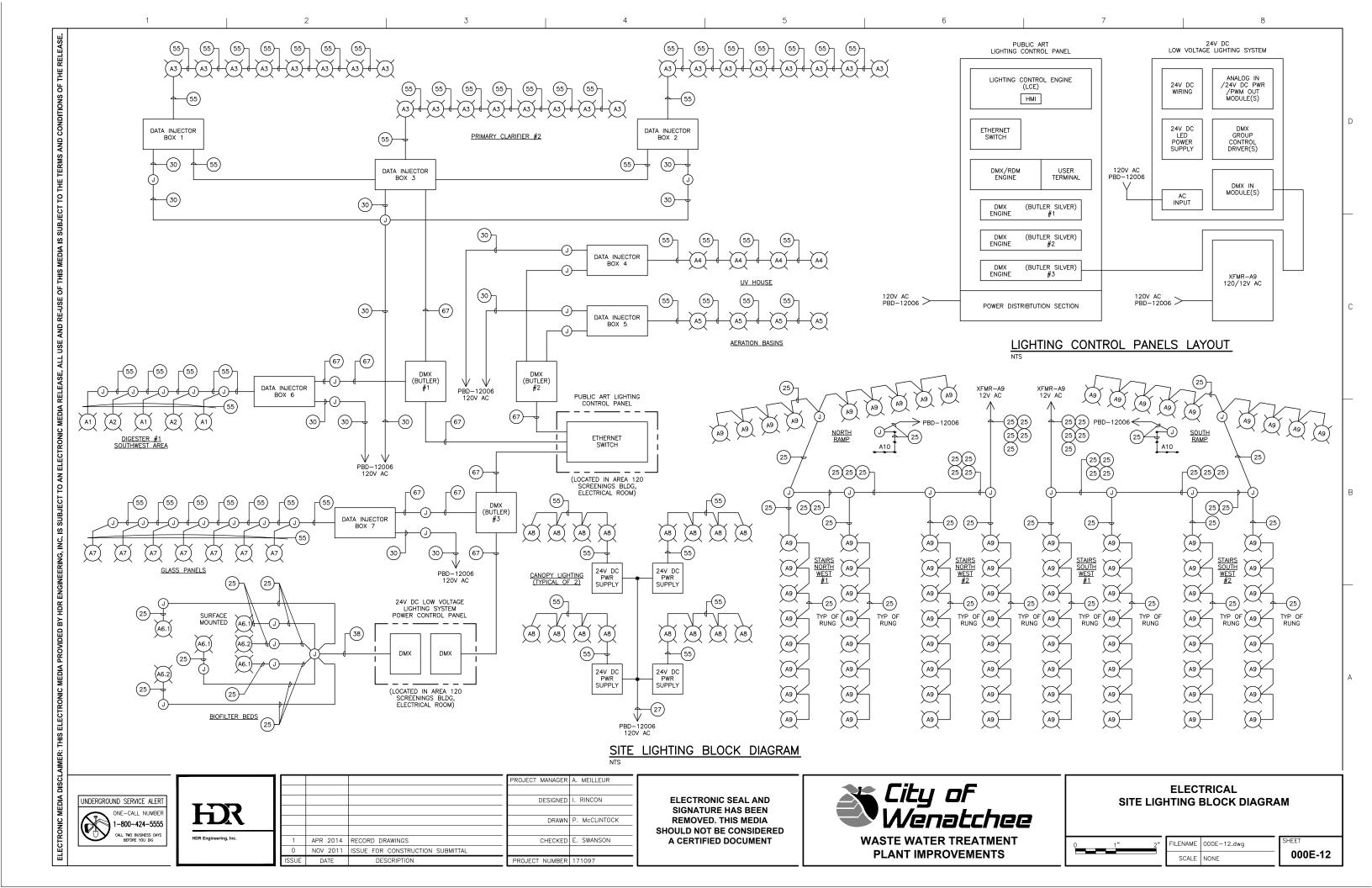
ILENAME	000E-08.dwg
SCALE	NONE

000E-08









KEY NOTES:

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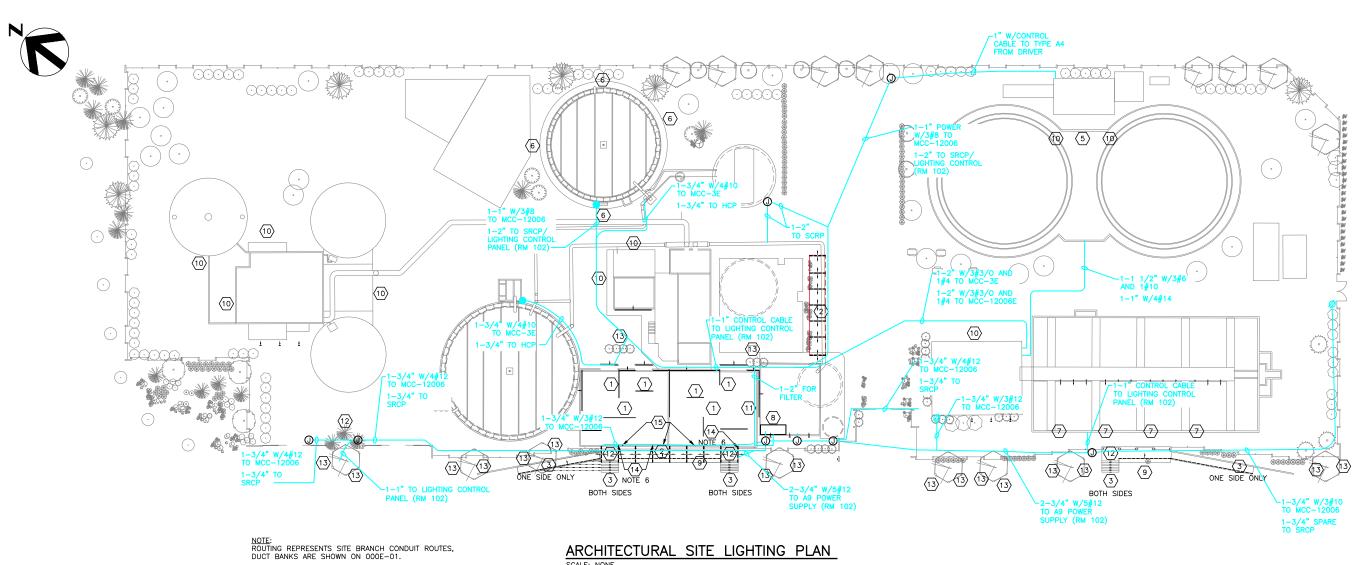
- 1) BIOFILTER BEDS AREA COLOR ACCENT LED LIGHTING SYSTEM TYPE A6.1, A6.2, REQUIRE PROGRAMMABLE LIGHTING CONTROLS TO MIMIC PROCESS, CREATING "WATER EFFECTS".
- 2 CANOPY ACCENT LED LIGHTING SYSTEM TYPE A8.
- 3 RAMP AND STAIRS ACCENT LED LIGHTING SYSTEM TYPE A9.
- 4 LED MARKER LIGHTING TYPE A10. JUST AT TOP OF EACH SET OF STAIRS, MAIN VIEWING PLATFORM ONLY.
- (5) UV HOUSE SW WALL TYPE A4.
- 6 CLARIFIERS OUTSIDE RAILING LIGHTING, TYPE A3.
- 7 AERATION BASIN ACCENT LIGHTING MOUNTED AT TOP LEFT EDGE OF EACH SW WALL, TYPE A5.
- (B) ACCENT LIGHTING CONTROLS SYSTEM MAIN PANEL(S) LOCATED IN SCREENINGS BUILDING ELECTRICAL ROOM.
- 9 UNDER BENCH ACCENT ROPE LED LIGHTING TYPE A12.

KEY NOTES:

- (10) NEW BUILDING EXTERIOR WALL MOUNTED LIGHTING FIXTURES REPLACING OLD FLOOD LIGHTS.
- (11) GLASS PANELS ACCENT LIGHTING TYPE A7.
- DIGESTER #1 FACE WASHING LIGHTING, TYPE A1, A2. MOUNT FIXTURES 5 FEET APART AT FENCE LINE, APPROX 30 FEET FROM DIGESTER FACE. BLUE AND COOL WHITE FIXTURES ALTERNATE.
- LANDSCAPE UP LIGHTING. COORDINATE WITH LANDSCAPE ARCHITECT/OWNER FOR FIELD LOCATION OF THESE PHOTO-CONTROLLED LUMINAIRES.
- WATER-ON-GLASS PANEL SUBMERSIBLE PUMPS LOCATIONS. PROVIDE CONDUIT/CABLE FROM PBD-12006 AT SCREENINGS BUILDING ELECTRICAL ROOM TO A JUNCTION BOX WITH A 115V AC WEATHERPROOF RECEPTACLE AT EACH OF THESE LOCATIONS. SIZE CONDUIT AND WIRES TO MEET APPLICATION AND COMPLY WITH NEC, AS PER MANUFACTURER'S REQUIREMENTS.
- LOCATIONS OF SOUND SPEAKERS ON GLASS AND MOTION SENSORS LOCATIONS OF SOUND SYSTEM, PROVIDE JUNCTION BOXES AND 3/4"C W/6-2 PAIR #12 SPEAKER WIRE FROM SPEAKERS TO SOUND CONTROL PANEL. PROVIDE JUNCTION BOXES AND 3/4"C W/3-SECRITY WIRE #22, 4 CONDUCTORS EACH FROM MOTION SENSORS TO SOUND CONTROL PANEL. REFER TO ARCHITECTURAL SHEETS FOR SPEAKERS AND SENSORS MOUNTING DETAILS.

NOTES:

- ELECTRICAL CONTRACTOR SPECIALIZED IN LED ACCENT LIGHTING SYSTEMS DESIGN AND ITS LIGHTING CONTROLS TO PROVIDE COMPLETE DESIGN OF ARCHITECTURAL THEME LIGHTING SYSTEM. SUBMIT PROPOSED ELECTRICAL POWER AND CONTROLS FOR ENGINEER/OWNER
- 2. ACCENT LED LIGHTING SYSTEMS REQUIRE INBOARD POWER INTEGRATION TECHNOLOGY AND COLOR—CHANGING LED FIXTURES REQUIRE DATA INJECTOR AND LIGHTING FIXTURE CONTROLS.
- LIGHTING EFFECT TO BE PROGRAMMED AS TO FOLLOW PROCESS ORDER ON THE SITE, FROM "LEFT-TO-RIGHT" IF FACING MAIN ENTRANCE (NORTH-TO-SOUTH).
- REFER TO ARCHITECTURAL SHEETS FOR BIOFILTER BEDS PATTERN, FENCE, CANOPIES AND OTHER BUILDING'S DETAILS.
- REFER TO ARCHITECTURAL LIGHTING THEME LIGHTING FIXTURE SCHEDULES FOR CHARACTERISTICS.
- 6. REFER TO ARCHITECTURAL SHEETS FOR WALL-ON-GLASS PANELS PUMPS AND CONDUIT MOUNTING DETAILS.



UNDERGROUND SERVICE ALERT ONE-CALL NUMBER 1-800-424-5555



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			DESIGNED	I. RINCON
			DRAWN	P. McCLINTOCK
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ARCHITECTURAL SITE LIGHTING PLAN



PLANT IMPROVEMENTS

ELECTRICAL OVERALL ARCHITECTURAL SITE LIGHTING

FILENAME	000E-13.dwg	SHE
SCALE	AS NOTED	(

000E-13

			LIGHTING FIXTURE SCHEDULE		
LTR	MANUFACTURER	CATALOG NO.	DESCRIPTION	LAMP	MOUNTING
A	GUTH	"PLASCOLUME" ACS77-82-120-EB/PI/HL HAZARDOUS LOCATIONS	HAZARDOUS LOCATIONS, CLASS I, DIVISION 2, INDOOR, HEAVY DUTY INDUSTRIAL FLUORESCENT, WET LOCATIONS LISTED, 1'x4', 2-LAMP, 22 GAGE 304 STAINLESS STEEL HOUSING, SEALED END CAPS, SOLID WHITE REFLECTOR, 100% DR VIRGIN ACRYLIC LENS WITH GASKETED DOOR, 304 STAINLESS STEEL EXPOSED METAL PARTS, ENERGY SAVING BALLAST, 120 VOLT, 60 HZ.	TWO 32 WATT, F32-T8 FLUORESCENT	INTERIOR CEILING PENDANT (NO CHAIN) +12' AFF
В	GUTH	"PLASCOLUME" ACS77-82-120-EB/MB90/HL HAZARDOUS LOCATIONS	HAZARDOUS LOCATIONS, CLASS I, DIVISION 2, INDOOR, HEAVY DUTY INDUSTRIAL FLUORESCENT, WET LOCATIONS LISTED, 1'x4', 2-LAMP, 22 GAGE 304 STAINLESS STEEL HOUSING, SEALED END CAPS, SOLID WHITE REFLECTOR, 100% DR VIRGIN ACRYLIC LENS WITH GASKETED DOOR, 304 STAINLESS STEEL EXPOSED METAL PARTS, WET LOCATIONS LISTED, ENERGY SAVING BALLAST, 120 VOLT, 60 HZ.	TWO 32 WATT, F32-T8 FLUORESCENT	INTERIOR WALL SURFACE +8' AFF
С	LITHONIA	LHZ612-S-1-G- 120/277-H0806-SDA	INTERIOR, CLASS I, DIVISION 2, BACK-UP BATTERY POWERED COMBINATION EMERGENCY EGRESS AND EXIT SIGN, ADJUSTABLE LIGHT HEADS, GREEN LED EXIT LETTERING ON WHITE BACKGROUND, CORROSION RESISTANT, 90-MINUTE MINIMUM LIGHT FROM INTEGRAL BATTERIES, NEMA 4X HAZARDOUS CONDITIONS, NONMETALLIC, ENCLOSED AND GASKETED, 120 VOLT, 60 HZ, UL 844 LISTED.	TWO 8 WATT MIN, 6 VOLT SEALED— BEAMED HALOGEN, ONE PER HEAD, LED EXIT ILLUMINATION	INTERIOR WALL +7.5' AFF
D	COOPER CROUSE-HINDS	"LIGHT-PAK" N2LPS12222	INTERIOR, CLASS I, DIVISION 2, BACK-UP BATTERY POWERED EMERGENCY EGRESS UNIT, ADJUSTABLE LIGHT HEADS, CORROSION-RESISTANT, 90-MINUTE MINIMUM LIGHT FROM INTEGRAL BATTERIES, MARINE WET LOCATION SUITABILITY NEMA 4X HAZARDOUS CONDITIONS, NONMETALLIC, ENCLOSED AND GASKETED, POWER SUPPLY 120VAC INPUT, 12VDC OUTPUT, 60 HZ; 28 WATTS MAX.	12 VDC; LAMP: 3 WATT LED	INTERIOR WALL +7.5' AFF
E	COOPER CROUSE-HINDS	EVLEDBX2201 HOUSING AND GLOBE GUARD	INDOOR, WHITE LED, CLASS I, DIVISION 1, TYPE 4X, MARINE, WET LOCATIONS AND HOSE-DOWN ENVIRONMENTS, UL 844 LISTED, FACTORY LEALED, NO EXTERNAL SEALS REQUIRED, AMBIENT TEMPERATURE -30°C TO + 55°C BODY, MOUNTING MODULES AND GUARD, COPPER-FREE ALUMINUM WITH CORRO-FREE EPOXY POWDER COAT, EXTERNAL HARDWARE STEEL, GLOBE-HEAT AND IMPACT RESISTANT GLASS.	36 WATTS, 120 VAC, 24 LEDS	SCREENINGS BUILDING INTERIOR WALL CHANNEL AREA
F	GUTH	G700-722 SYSTEM CONTROL -EL1-67 LIGHT HEAD 12V DC 22 WATT -ES1-G-102 EXIT SIGN 12V DC, 12 WATT	CLASS I, DIVISION 1 LISTED, EXPLOSION—PROOF EMERGENCY SYSTEM, EMERGENCY EGRESS LIGHTING AND EXIT SIGNAGE, DIE—CAST COPPER FREE ALUMINUM HOUSING, 120V AC INPUT, LONG LIFE MAINENANCE—FREE, PURE LEAD BATTERY, 90 MINUTE LIGHT FROM BATTERIES, AC READY LIGHT, LOW VOLTAGE BATTERY DISCONNECT, AC LOCK—OUT, BROWN—OUT PROTECTION, INCLUDES SYSTEM CONTROL HOUSING 12V DC, 75 DC WATTAGE, SINGLE LIGHTING HEAD AND EXIT SIGN GREEN LETTERS ON WHITE BACKGROUND. NORMALLY OFF, UL 844 LISTED.	HEAT AND IMPACT RESISTANT, CLEAR GLASS, PL13 FLUORESCENT, 120V AC	INTERIOR WALL SURFACE
G	GUTH	"PLASCOLUME" ACS67-82-120-EB/PI	INDOOR, GENERAL, HEAVY DUTY INDUSTRIAL FLUORESCENT, WET LOCATIONS, 1'x4', 2 LAMP, 22 GAGE 304 STAINLESS STEEL HOUSING, SEALED END CAPS, SOLID WHITE REFLECTOR, 100% DR VIRGIN ACRYLIC LENS WITH GASKETED DOOR, 304 STAINLESS STEEL EXPOSED METAL PARTS, WET LOCATIONS LISTED, ENERGY SAVING BALLAST, 120 VOLT, 60 HZ.	TWO 32 WATT, F32-T8 FLUORESCENT	INTERIOR CEILIN PENDANT (NO CHAIN) +12' AFF
Н	GUTH	"PLASCOLUME" ACS67-82-120-EB/MB90	INDOOR, GENERAL, HEAVY DUTY INDUSTRIAL FLUORESCENT, WET LOCATIONS, 1'x4', 2 LAMP, 22 GAGE 304 STAINLESS STEEL HOUSING, SEALED END CAPS, SOLID WHITE REFLECTOR, 100% DR VIRGIN ACRYLIC LENS WITH GASKETED DOOR, 304 STAINLESS STEEL EXPOSED METAL PARTS, WET LOCATIONS LISTED, ENERGY SAVING BALLAST, 120 VOLT, 60 HZ.	TWO 32 WATT, F32-T8 FLUORESCENT	INTERIOR WALL SURFACE +10' AFF
J	LIGHTGUARD	DXLN1GW	INDUSTRIAL SELF POWERED EXIT SIGN, 120V, CORROSION RESISTANT, 90 MINUTE EMERGENCY ILLUMINATION, DIE CAST HOUSING, LED LIT, GREEN LETTERS WITH WHITE BACKGROUNDS, NICKEL CADMIUM BATTERY. SINGLE-FACED. WALL MOUNTED CONFIGURATION AND ACCESSORIES.	LED	WALL
K	LIGHTGUARD	DXLN2GW	INDUSTRIAL SELF POWERED EXIT SIGN, 120V, CORROSION RESISTANT, 90 MINUTE EMERGENCY ILLUMINATION, DIE CAST HOUSING, LED LIT, GREEN LETTERS WITH WHITE BACKGROUNDS, NICKEL CADMIUM BATTERY. DOUBLE-FACED. CEILING MOUNTED CONFIGURATION AND ACCESSORIES.	LED	CEILING
L	LITHONIA	"WFL2" WFL2150MRM120- LPI-PE-BVG-DBL	EXTERIOR, METAL HALIDE, TEMPERATURE REDUCING INFRARED LENS, FACETED REFLECTOR, EXTRUDED ALUMINUM BODY WITH CAST END CAPS, ROTATING HOUSING BODY, CAST ALUMINUM DOOR FRAME HINGED AND SECURED BY STAINLESS STEEL FASTENERS, CLOSED CELL SILICONE GASKET TO PREVENT PENETRATION OF MOISTURE AND DUST, 120V AC. INTEGRAL PHOTO—ELECTRIC CONTROL. BLACK FRAME AND BRACKET.	ONE 150 WATT METAL HALIDE	EXTERIOR WAL SURFACE

FINISHED FLOOR (AFF). MOUNTING HEIGHTS .
FIELD ADJUSTED AS PRACTICAL TO AVOID INTE HVAC EQUIPMENT, DUCTWORK, SKYLIGHTS, ETC

	EVTE	DIOD METAL	TALIDE TEMPERATURE REDUCING INTERACES	THE FACETED DEELECTED	ONE 150 ******	
	EXTR ALUM CELL	UDED ALUMINI IINUM DOOR I SILICONE GA	HALIDE, TEMPERATURE REDUCING INFRARED L JUM BODY WITH CAST END CAPS, ROTATING H FRAME HINGED AND SECURED BY STAINLESS SKET TO PREVENT PENETRATION OF MOISTURI ELECTRIC CONTROL. BLACK FRAME AND BRAC	OUSING BODY, CAST STEEL FASTENERS, CLOSE E AND DUST, 120V AC.	METAL HALIDE	EXT
					'	
		L OF FEET AE TIONS SHALL				
		S WITH PIPIN				
1				PROJECT MANAGER	A. MEILLEUR	
1						
1				PROJECT MANAGER DESIGNED		
					I. RINCON	
	1	APR 2014	PECORD DRAWINGS	DESIGNED DRAWN	I. RINCON P. McCLINTOCK	s
	1 0	APR 2014 NOV 2011	RECORD DRAWINGS ISSUE FOR CONSTRUCTION SUBMITTAL	DESIGNED	I. RINCON P. McCLINTOCK	s

ELECTRONIC SEAL AND SIGNATURE HAS BEEN **REMOVED. THIS MEDIA** SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

TYPE

Δ2

A3

A5

A6.1

A6.2

A7

A8

A10

A11

A12

A13

MANUFACTURER

TRAXON

TRAXON

TRAXON

TRAXON

TRAXON

LIGHTWILD

LIGHTWILD

TRAXON

LIGHTWILD

VISTAPRO

TRAA

MCGRAW EDISON

BRUCK ORION

BELT

CATALOG No.

BLUE, 20 DEGREE

BEAM ANGLE

AC.W36.53611 LED

ANGLE

AC.XB.W2.53861 LED

SPREAD

SPREAD

SPREAD

W-THE-FLOOR-RECT-

2.4.CW 24 IN. TILE

AC-XB.L3-DW, 10

DEGREE BEAM SPREAD

LW-LUMPWRLT-M

WW-48-EXT, 60

PRO-SL-5222-P-LC5-

MOUNTING KIT

W/FB-CPS-1

CONCRETE POUR

SLEEVE

ISS-70-JMP-120-2S-BZ-

TEM#135401-1, ITEM

#70438, ITEM #

POUR KIT WHERE

REFER TO ARCHITECTURAL DETAIL SHEETS FOR MOUNTING DETAILS.

DUSKTO DAWN PHOTOCELL (PHOTOELECTRIC) CONTROLLED.

NECESSARY

LAMP-F-P

REQUIRED.



ARCHITECTURAL ACCENT LIGHTING FIXTURE SCHEDULE

DESCRIPTION

IP 66 OUTDOOR LUMINAIRE WASH SHIELD, 100-240 V AC INPUT VOLTAGE, LED CURRENT 350 mg

P 66 OUTDOOR LUMINAIRE WASH SHIELD, 100-240 V AC INPUT VOLTAGE. LED CURRENT 350 m/

DC . FIXTURES WILL BE MOUNTED FIVE FEET APART AT FENCE LINE, APPROX. THIRTY FEET FROM

P 66 OUTDOOR LUMINAIRE WASH SHIELD, 100-240 V AC INPUT VOLTAGE. DYNAMIC WHITE LED

IP65 TOTAL LIGHT WILD RECTANGULAR TILE OUTDOOR LUMINAIRE LOW VOLTAGE POWER

IP65 TOTAL LIGHT WILD RECTANGULAR TILE OUTDOOR LUMINAIRE LOW VOLTAGE POWER

TOTAL LUMEN POWER STANDARD 2.1 LINEAR FIXTURES 4-FT LONG ADJUSTABLE CLIPS FOR

SURFACE MOUNTING, WARM WHITE LED. QUANTITY BASED ON NINE I-BEAMS, 7 CENTRAL I-

BEAMS WILL HAVE ONE FIXTURE ON EACH SIDE; TWO I-BEAM END SUPPORTS WIL HAVE FIXTURE

OUTDOOR IP 66 STEPLIGHTS INPUT VOLTAGE 6-15 VAC. NINE STEP LIGHTS ON ONE CURB SIDE

/IEWING PLATFORM STAIRS ONLY (2 SETS OF FIVE). PROVIDE EIGHT FEET MOUNTING CHANNEL

OUTDOOR IP 66 EGRESS CORROSION RESISTANT LIGHT QUARTER SPHERE PULSE STRIKE METAL

WARM WHITE LED ROPE TO RUN UNDER ENTIRE LENGTH OF BENCH, MAXIMUM 75 FEET

FACTORY SUPPLIED LENGTH. PROVIDE 8-FT MOUNTING CHANNEL WITH PRIMATIC LENS.

OVIDE 96 WATT DRIVER HARACTERISTICS 100-277 VAC, 50/60 HZ, 24 VDC OUTPUT.

OUTDOOR CORROSION RESISTANT LANDSCAPE LED UPLIGHT. HOUSING: DIE-CAST, COPPER FREI ALUMINUM, SHROUD: MEDIUM SHROUD INTEGRALLY MOLDED WITH HOUSING AND AIMABLE

STAINLESS STEEL. PREWIRED WITH 200 DEGREES CELSIUS RATED WIRE AND GROUNDED LEAD.

LED PROGRAMMABLE LIGHTING INCLUDES: LIGHTING CONTROL ENGINE (LCE); ETHERNET SWITCH; BUTTLER SILVER (DMX/RDM ENGINE); DATA INJECTOR; MANUFACTURER DATA CABLES; ENDCAP DATA TERMINATOR AND CONTROLLER PAD. CONTRACTOR TO DESIGN FUNCTIONAL AND COMPLETE PUBLIC ART SHOW, INCLUDING ACCENT LIGHTING, WATER ON GLASS PANELS

ALL FIXTURE LOCATIONS TO BE FIELD LOCATE AND VERIFIED BEFORE ORDERING AND MOUNTING. SEE PROGRAMMING NARRATIVES FOR INDIVIDUAL LED LUMINAIRE PROGRAMMING

MOUNTING: INTO THREADED HUBS IN JUNCTION BOXES, GROUND STAKES, TREE MOUNT

OF EACH RAMP, BOTH VIEWING PLATFORMS. SPACING BETWEEN STEP LIGHTS 6.5 FT ALONG

PLATFORMS (4 SETS OF 8 STEPS). 3 EMITTER, LOW VOLTAGE WITH ELECTRONIC DRIVE.

IP 66 OUTDOOR LUMINAIRE GRAZE SHIELD, 100-240 V AC INPUT VOLTAGE. DYNAMIC WHITE LED

SUPPLY 24 VDC 8.7 WATTS PER TILE. COOL WHITE. LOW VOLTAGE POWER SUPPLY 24 VDC

AC.XB.WG.53421 LED DC. FIXTURES WILL BE MOUNTED FIVE FEET APART AT FENCE LINE, APPROX. THIRTY FEET FROM

CW 10 DEGREE BEAM DIGESTER FACE. BLUE AND CW FIXTURES ALTERNATE AND WILL BE PROGRAMMED

AC.XB.W2.53861 LED CURRENT 350 MA DC. FIXTURES WILL BE MOUNTED APPROXIMATELY 9.5 FEET APART ON OUTSIDE EDGE OF CLARIFIER. PROVIDE ALUMINUM ARM FOR MOUNTING FIXTURE ABOVE

AC.XB.WG.53111 LED IP 66 OUTDOOR LUMINAIRE WASH SHIELD, 100-240 V AC INPUT VOLTAGE. RGB LED CURRENT

RGB 10 DEGREE BEAM 350 MA DC . MOUNT AT TO PEDGE OF SOUTH WALL, IN LINE WITH EXISTING FLOODLIGHTS THAT

W-TILE-FLOOR-RECT- SUPPLY 24 VDC 11.6 WATTS PER TILE. COOL WHITE, LOW VOLTAGE POWER SUPPLY 24 VDC

DEGREE BEAM SPREAD MOUNTED ON INSIDE WELL ONLY. USE ADJUSTABLE MOUNTING CLIP TO CAST LIGHT ONTO

ND WITH CONCRETE CURB. SIXTEEN STEP LIGHTS ON EACH SET OF EIGHT STEPS (64 TOTAL), BOTH VIEWING

GDG-30 W PVD SATIN OUTDOOR IP66 MARKER LIGHTS, 80 DEGREE BEAM SPREAD BLUE LED. PLACE AT TOP OF MAIN

1079-G-W-FL-M-120 359 DEGREES ABOUT KNUCKLE BASE. LENS: CLEAR SODA LIME GLASS. FINISH: GREEN POLYESTER IB-200 JUNCTION BOX POWDER-COAT FINISH, OPTICS: INJECTION-MOLDED OPTICAL GRADE ACRYLIC, 120 V. UL 8750

JBCP-150 CONCRETE 1598LISTED, CONSTANT CURRENT DRIVEER OUTPUT, POWER INPUT 17 WATTS. ALLFASTENERS

BOXES, OR MOUNTING CANOPIES. COORDINATE WITH OWNER/ARCHITECT

GLASS CANOPY. LOW VOLTAGE POWER SUPPLY 24 VDC.

HALIDE 120 VAC INCLUDE LAMP FUSE PHOTOCONTROL

ARE AT ABOUT SIXTEEN FEET HIGH, SPACE EQUIDISTANT FROM EACH OTHER. AC-XP-W1-18 LED WW P 66 OUTDOOR LUMINAIRE WASH SHIELD, 100-240 V AC INPUT VOLTAGE, LED CURRENT 350 m

INDIVIDUALLY. COOL WHITE LED. CLEAR COVER.

30 DEGREE BEAM DC. MOUNT AT TOP LEFT EDGE OF EACH AERATION BED SW WALL

N DIVIDUALLY, BLUE LED, CLEAR COVER.

DIGESTER FACE, BLUE AND CW FIXTURES ALTERNATE AND WILL BE PROGRAMMED

ELECTRICAL
LIGHTING FIXTURE SCHEDULE



•	FILENAME	000E-14.dwg
	SCALE	NONE

000E-14

SEE NOTE

BELOW

1,2,3

1.2.3.

1,2,3

1,2,3

1,2,3

1,2,3

1.2.3

2.4

2.4

2,4

MOUNTING

ON FENCE ACROS

IGESTER TO LIGHT

UP AREA OF

DIGESTER 1 FACE

ON FENCE ACROSS

IGESTER TO LIGHT

UP AREA OF

DIGESTER 1 FACE

RIMARY CLARIFIER

#2. PROVIDE ARM

EXTENSION

UV HOUSE SOUTH

WALL

AERATION BEDS

WALL

BIOFILTRATION

BEDS

BIOFILTRATION

CHANNEL GLASS

WALLS

EWING PLATFORM

CANOPY, I-BEAMS

RAMP & STAIRS USE

JBCP-150 CONCRETE

MOUNTING KIT

MAIN VIEWING

PLATFORM, TOP OF

STAIRS ONLY

WALL MOUNT

SCONE

UNDER BENCH

MOUNTING

CHANNEL

LANDSCAPE

ON BASE

JPLIGHT, MOUNT

LAMP

LED BLUE 5:

WATTS

CW LED, 53

DW LED 53

WATTS

RGB LED 53

WATTS

WW LED 28

WATTS

24" TILE, 24

VDC

11.6 WATTS

36" TILE, 24

VDC

53 WATTS

WW LED

22.6 WATTS

24 VDC

LED LC-5-ND

6-15 VAC

LED BLUE

120 VAC

MP MH 7

WATTS 120

VAC

WW LED

ROPE 24 VDC

LED 120 V

UP LIGHT

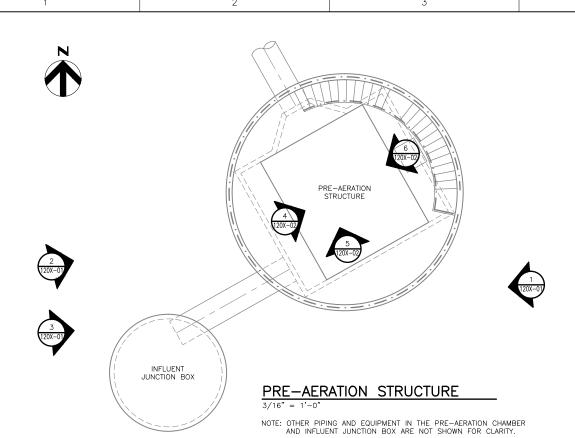
12.6 WATTS

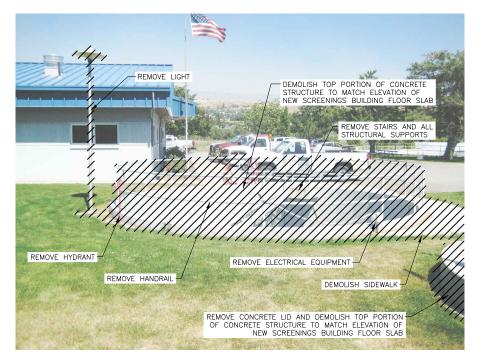
32

10

TBD

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-424-5555
CALL TWO BUSINESS DAYS
BEFORE YOU DIG



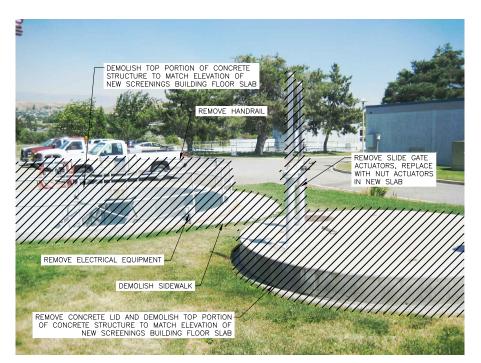


DEMOLITION PHOTO



REMOVE CONCRETE LID AND DEMOLISH TOP PORTION OF CONCRETE STRUCTURE TO MATCH ELEVATION OF NEW SCREENINGS BUILDING FLOOR SLAB REMOVE SLIDE GATE-ACTUATORS, REPLACE WITH NUT ACTUATORS IN NEW SLAB REMOVE HANDRAIL REMOVE ELECTRICAL EQUIPMENT DEMOLISH SIDEWALK DEMOLISH TOP PORTION OF CONCRETE STRUCTURE TO MATCH ELEVATION OF NEW SCREENINGS BUILDING FLOOR SLAE

DEMOLITION PHOTO



DEMOLITION PHOTO



KEY PLAN

UNDERGROUND SERVICE ALERT ONE-CALL NUMBER 1-800-424-5555

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1	APR 2014	RECORD DRAWINGS
0	NOV 2011	ISSUE FOR CONSTRUCTION SUB
ISSUE	DATE	DESCRIPTION

	PROJECT MANAGER	A. MEILLEUR	Г
			ı
	DESIGNED	S. CHILUKURI	ı
			ı
	DRAWN	B. LILLY	ı
			ı
	CHECKED	J. KOCH	ı
			ı
	PROJECT NUMBER	171097	
_			

ELECTRONIC SEAL AND SIGNATURE HAS BEEN **REMOVED. THIS MEDIA** SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT



PLANT IMPROVEMENTS

PRE-AERATION STRUCTURE **EXTERIOR DEMOLITION**

NAME	120X-01.dwg	SHEET
CALE	NOT TO SCALE	120X-01



DEMOLITION PHOTO





DEMOLITION PHOTO





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			PRO
1	APR 2014	RECORD DRAWINGS	
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL	
ISSUE	DATE	DESCRIPTION	PRO

PROJECT MANAGER	A. MEILLEUR	ı
DESIGNED	S. CHILUKURI	
DRAWN	B. LILLY	
CHECKED	J. KOCH	
PROJECT NUMBER	171097	
	DESIGNED DRAWN CHECKED	PROJECT MANAGER A. MEILLEUR DESIGNED S. CHILUKURI DRAWN B. LILLY CHECKED J. KOCH PROJECT NUMBER 171097

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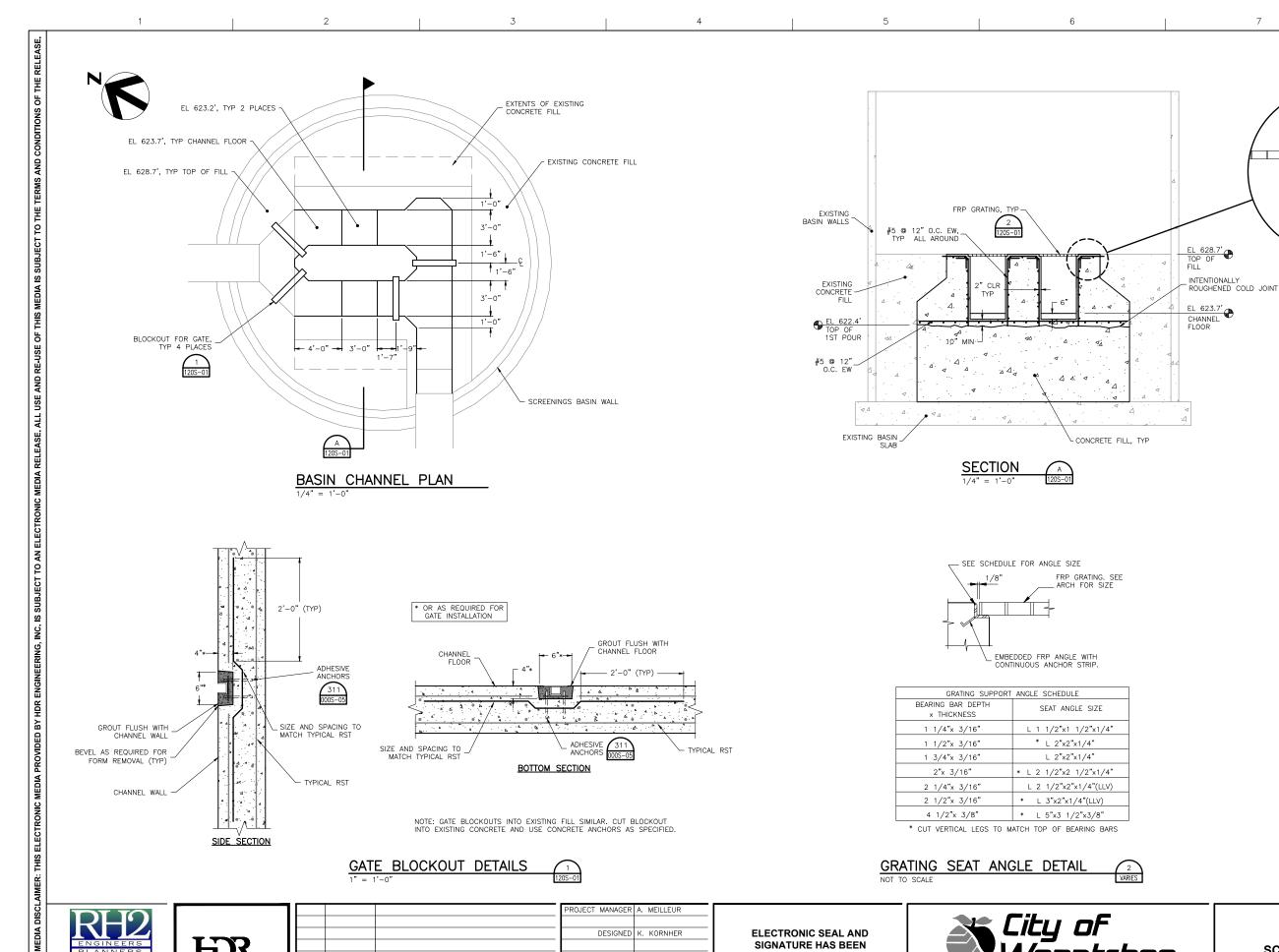
PLANT IMPROVEMENTS

PRE-AERATION STRUCTURE INTERIOR DEMOLITION

1" 2" FILE

FILENAME	120X-02.dwg
SCALE	NOT TO SCALE

120X-02



16 KEY PLAN

#5 ADHESIVE ANCHOR W/ 90' HOOK @ 12" O.C. EMBED 4" INTO EXISTING CONCRETE, TYP ALL AROUND

GRATING SEAT ANGLE DETAIL



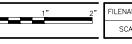
	_		
- .7.4.5			
Engineering, Inc.		1	APR
		0	NOV
		ISSUE	D.

			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	K. KORNHER
			DRAWN	J. CONNER
1	APR 2014	RECORD DRAWINGS	CHECKED	M. HIJAZI
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	171097

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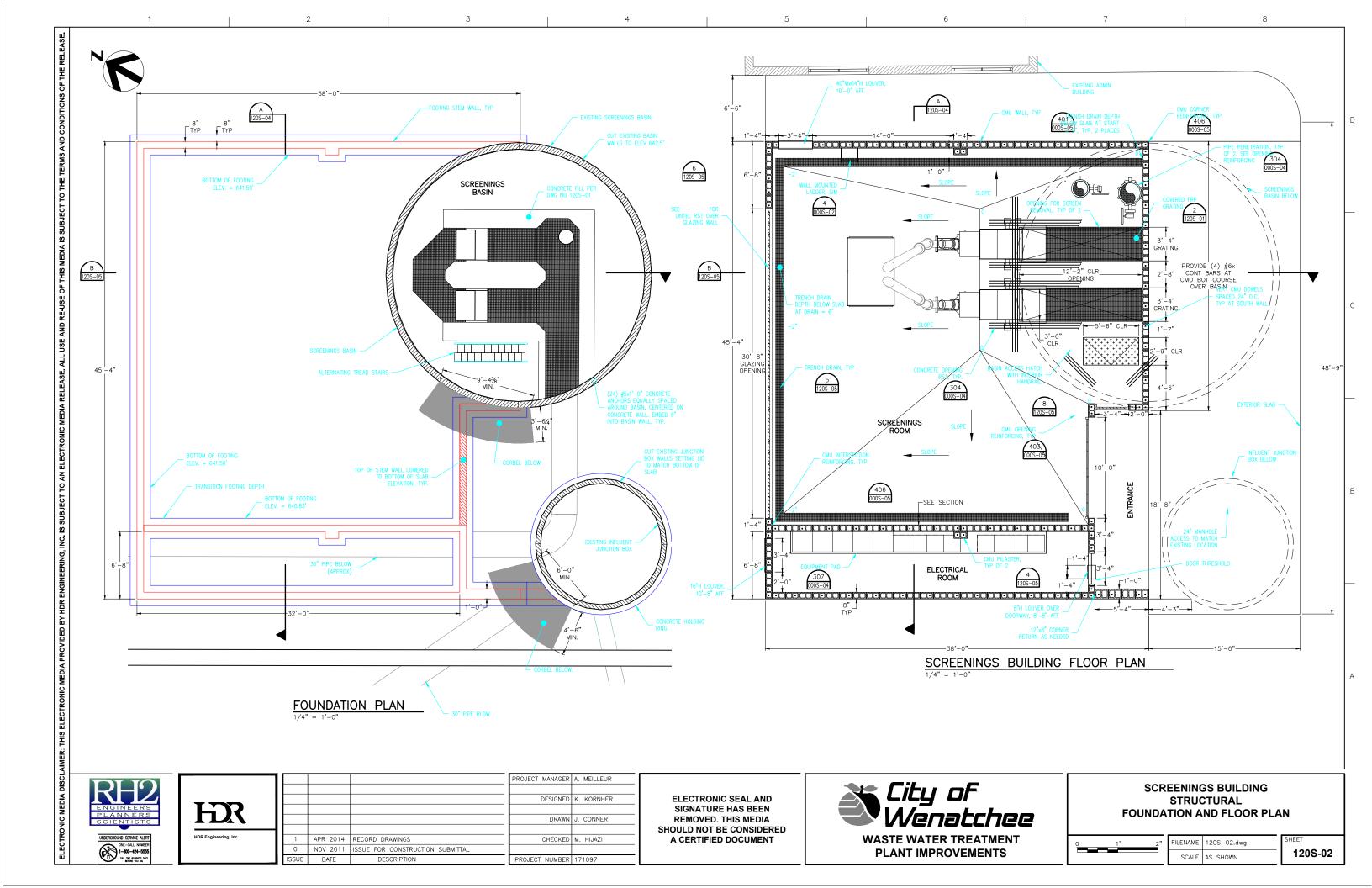


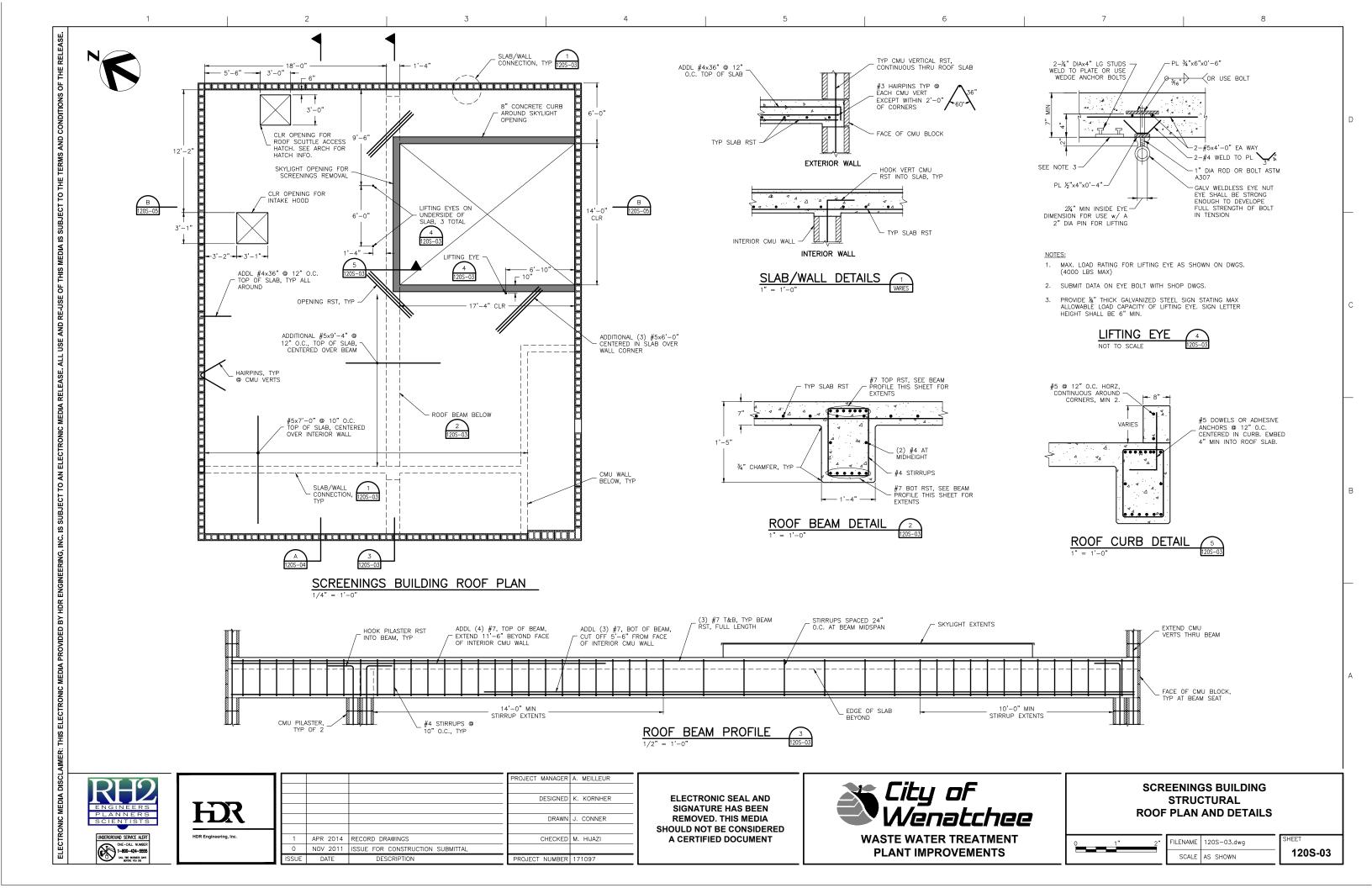
WASTE WATER TREATMENT PLANT IMPROVEMENTS

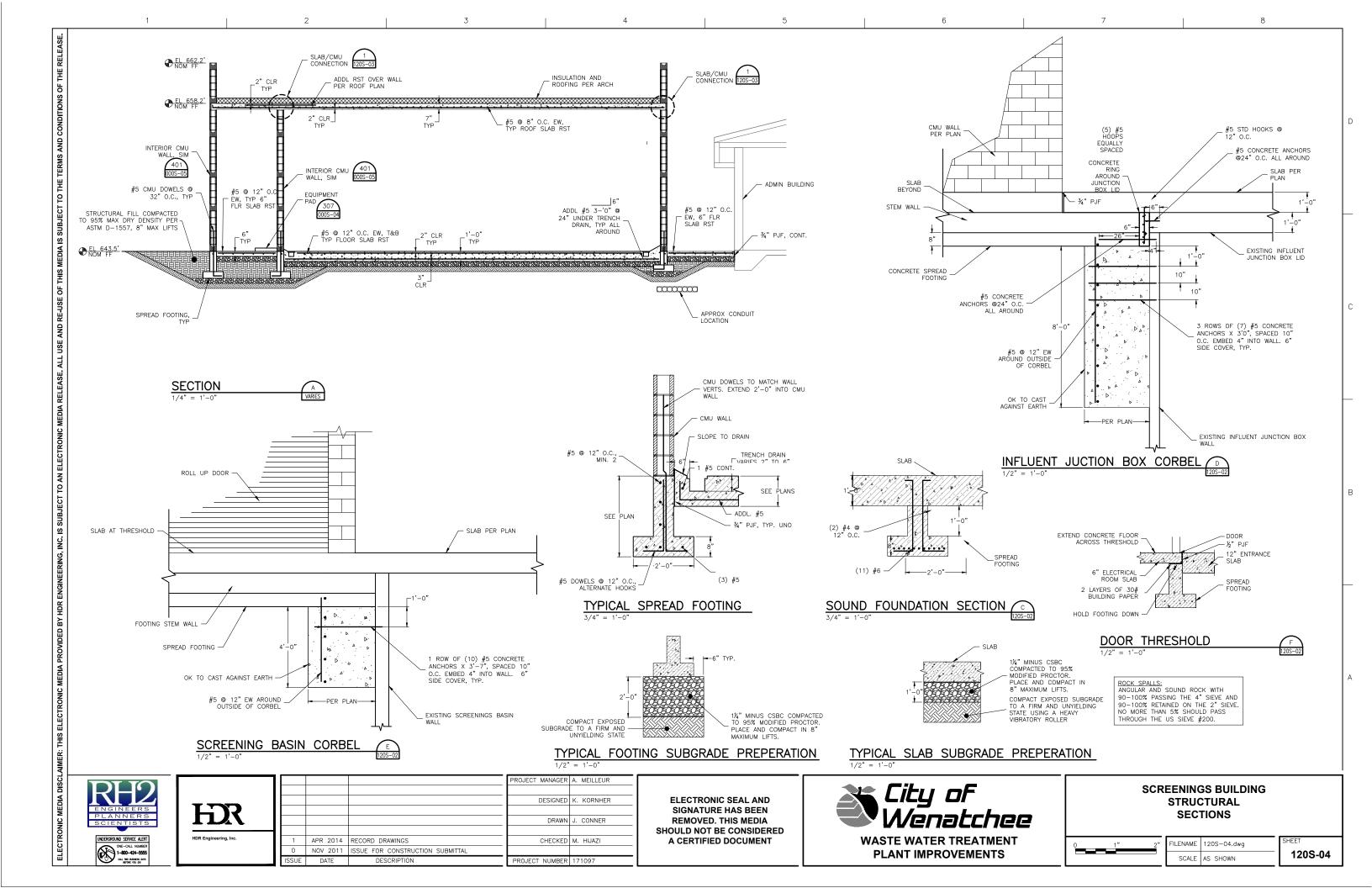


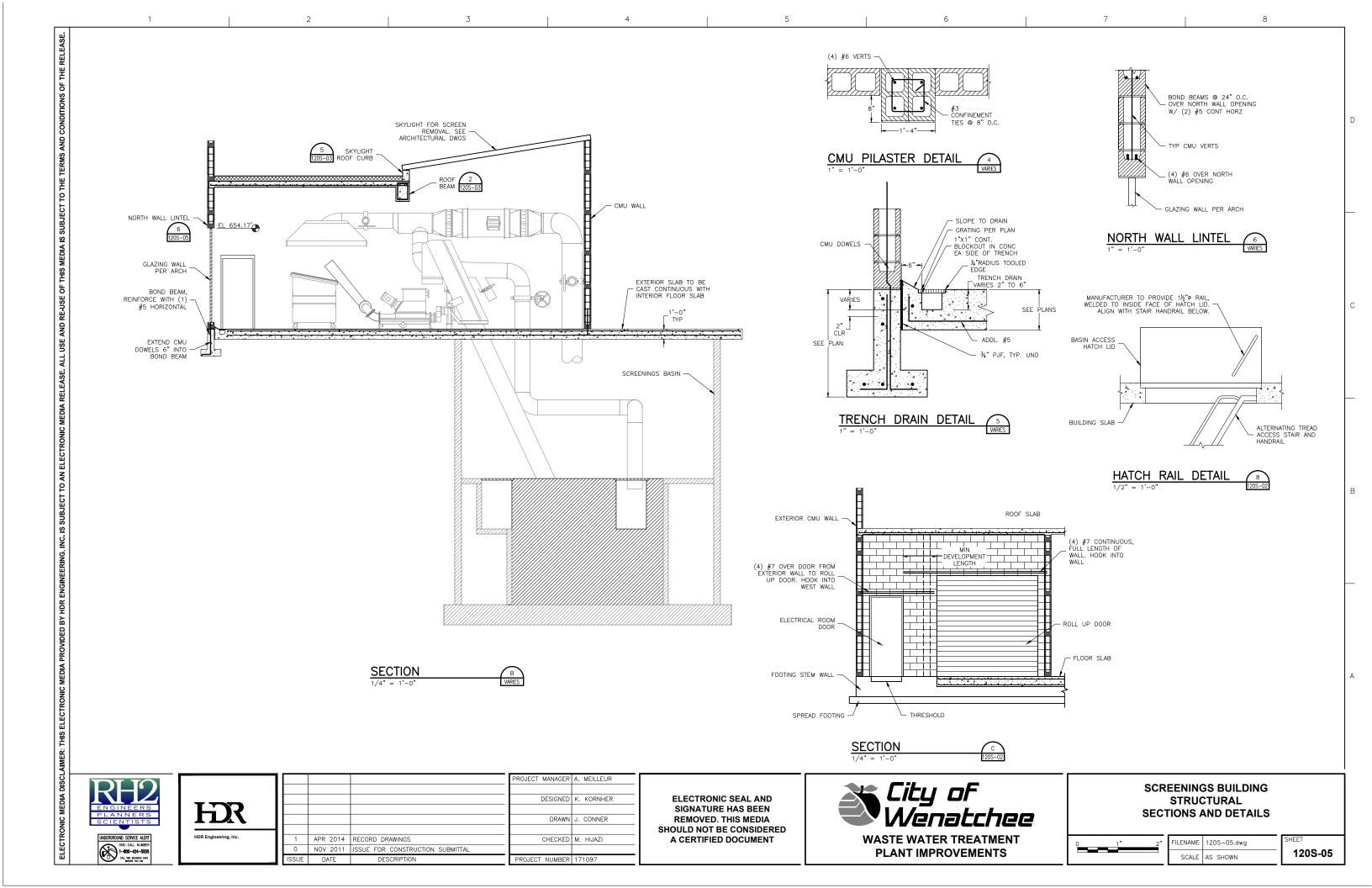
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ALE	AS SHOWN	ı

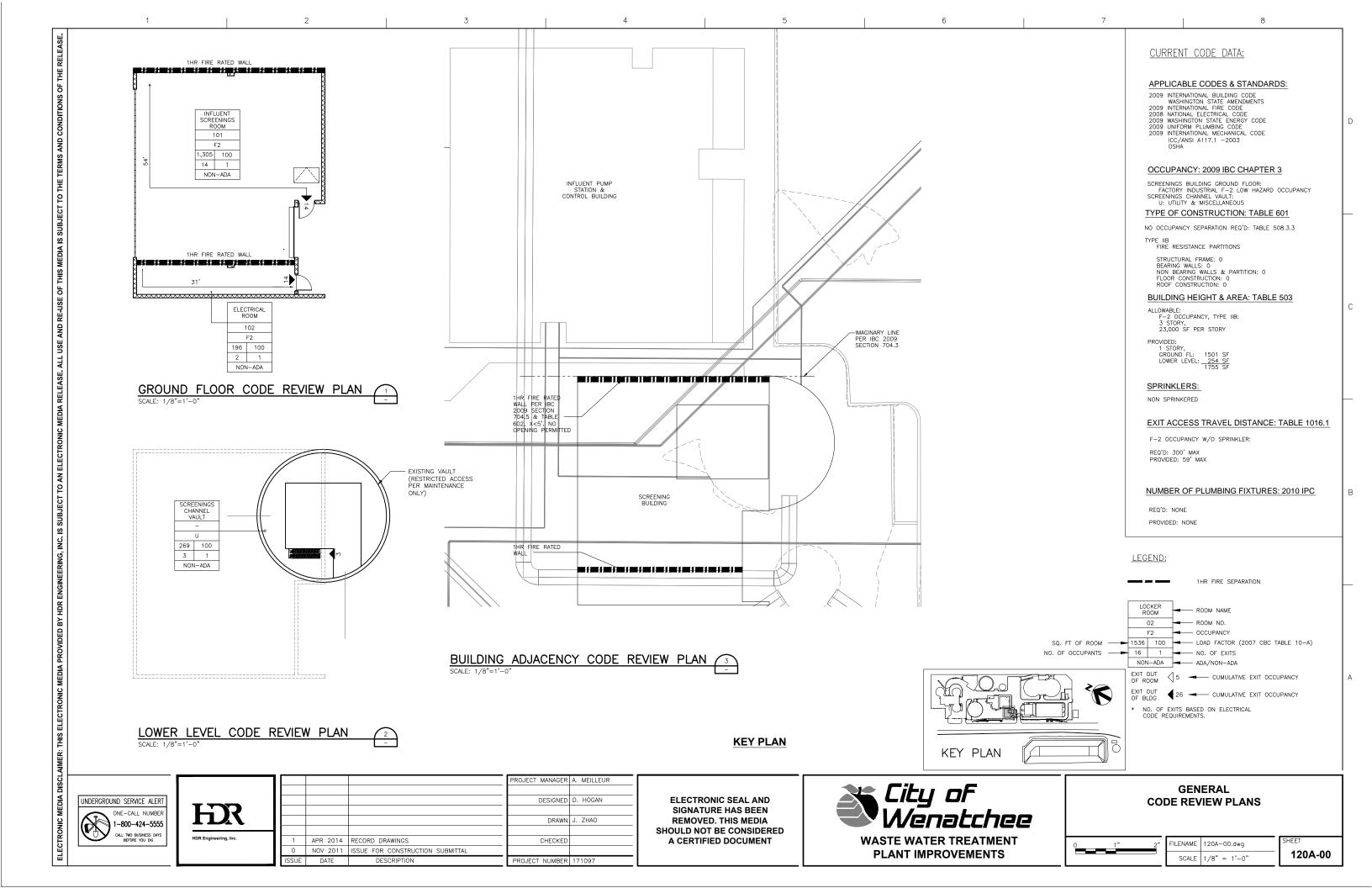
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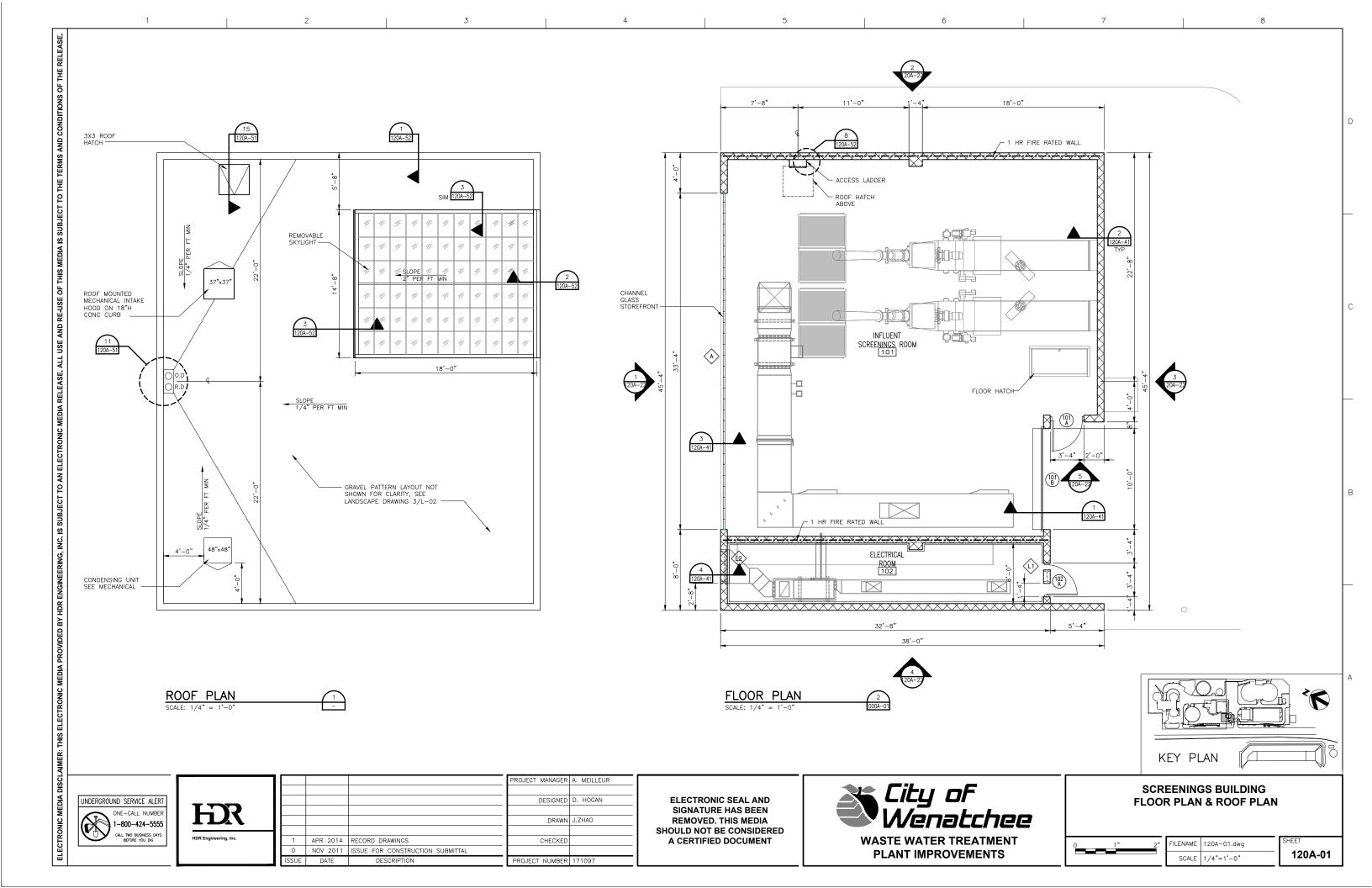


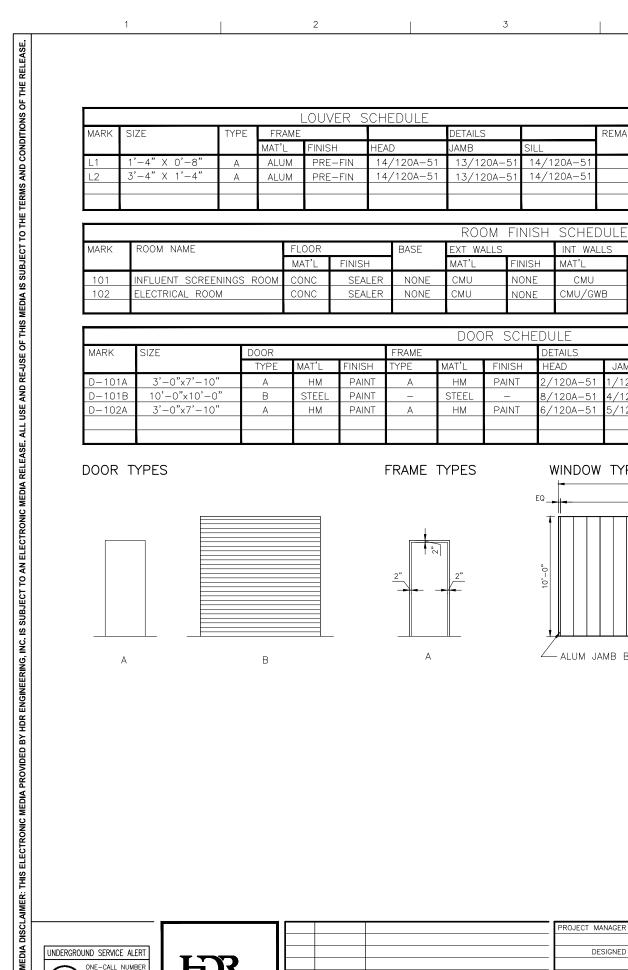


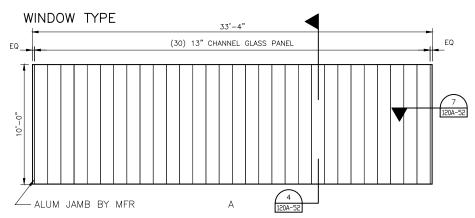












HDWR.

HW-2

HW-2

REMARKS

NONE

PAINT

/120A-5

1/120A-5

/120A-51

CEILING

EXP. STRUCT

EXP. STRUCT

MAT'L

/120A-51

/120A-51

INT WALLS

CMU

CMU/GWB

W	ΊN	D	۷C	/	ΤΥ	PE	Ξ						33'-	-4"					•	1					ı	LOl	JVER	: T	/PE	:S
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																				†			•		7 120A-52					

FINISH

NONE

NONE

LABEL

HEIGHT

VARIES

VARIES

MOTOR OPERATED

REMARKS

REMARKS

UNDERGROUND SERVICE ALERT ONE-CALL NUMBER 1-800-424-5555



			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	D. HOGAN
			DRAWN	J. ZHAO
1	APR 2014	RECORD DRAWINGS	CHECKED	
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	171097

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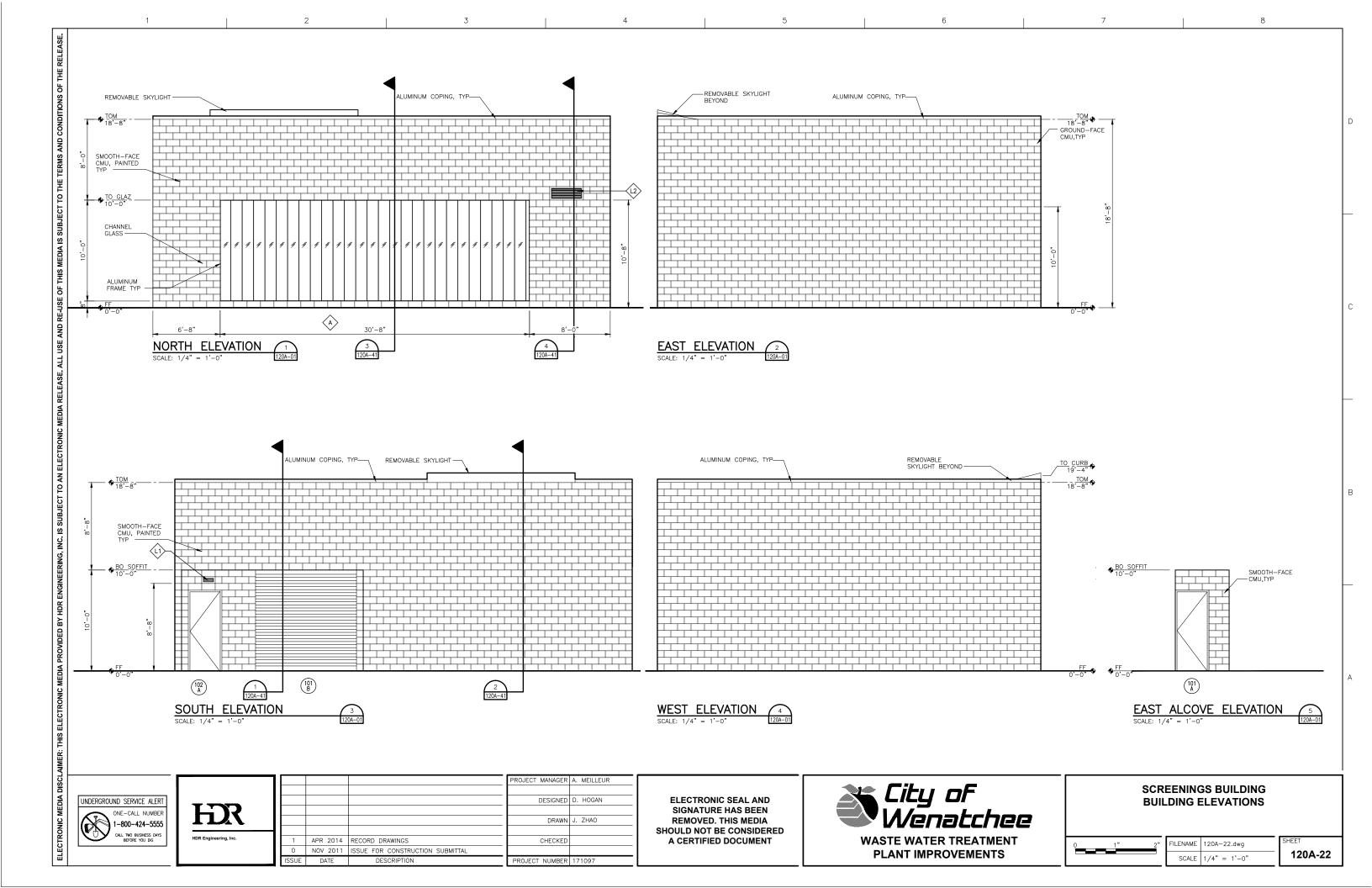


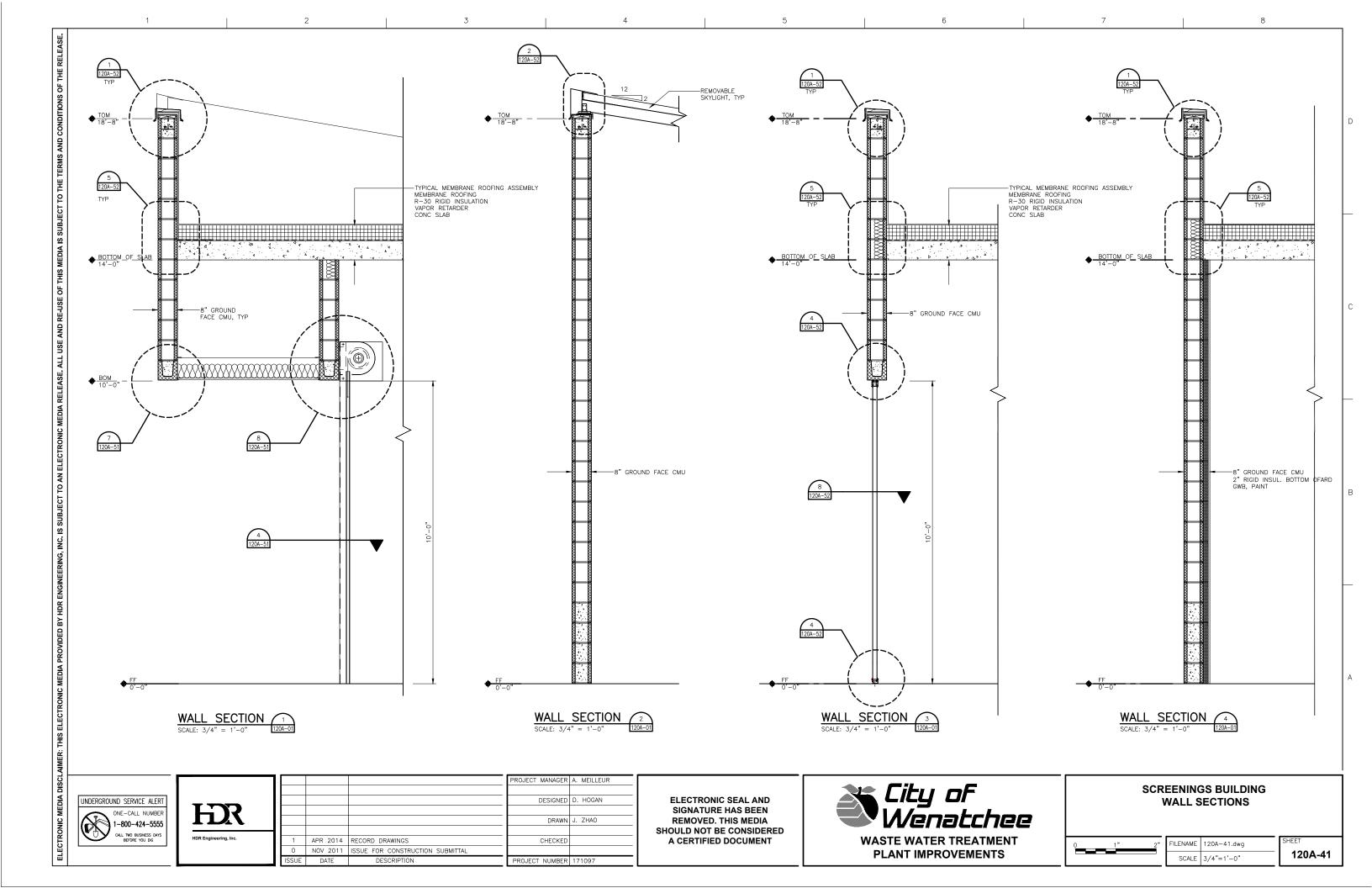
SCREENINGS BUILDING DOOR, LOUVER AND WINDOW **TYPES & SCHEDULES**

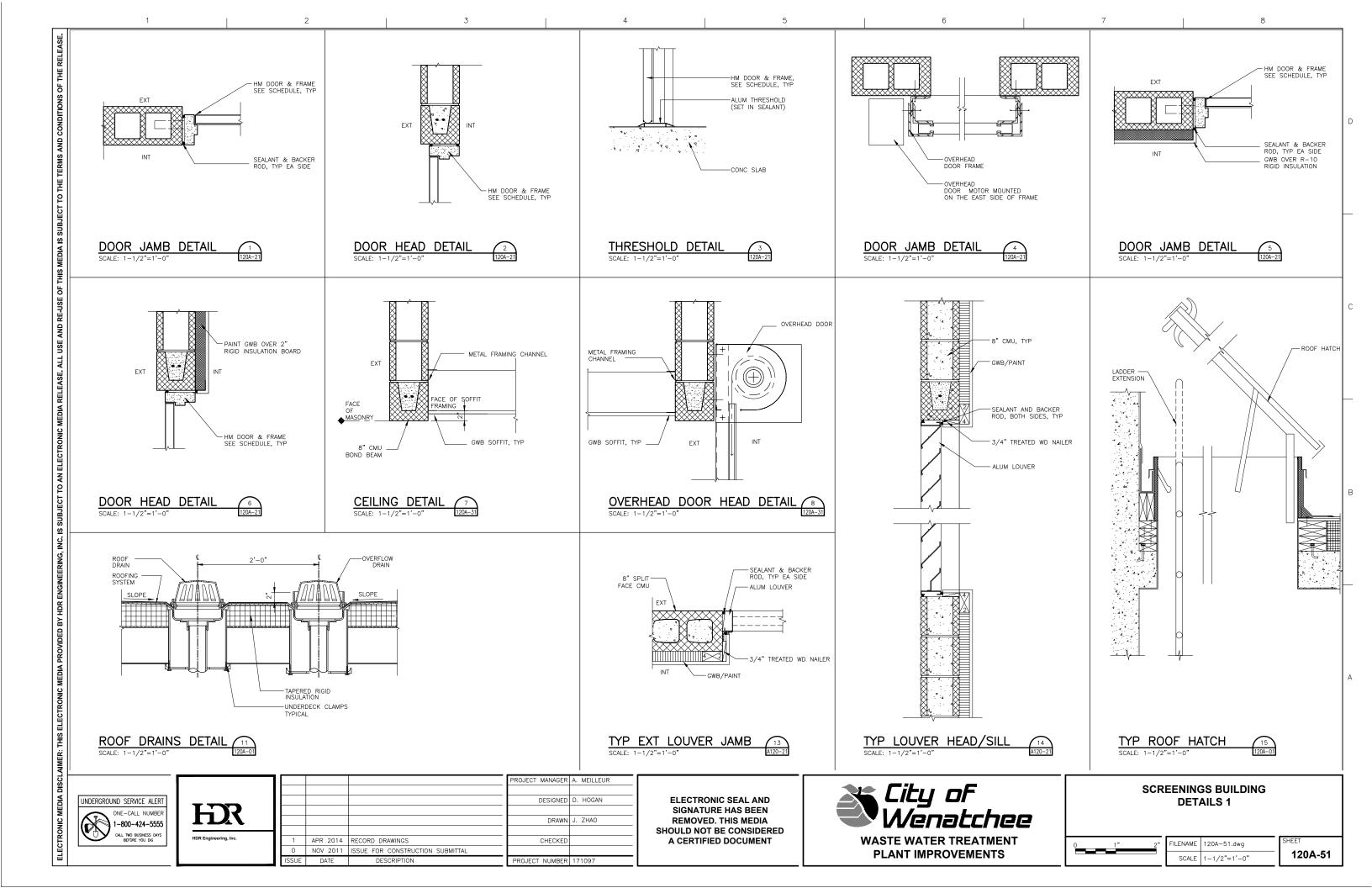


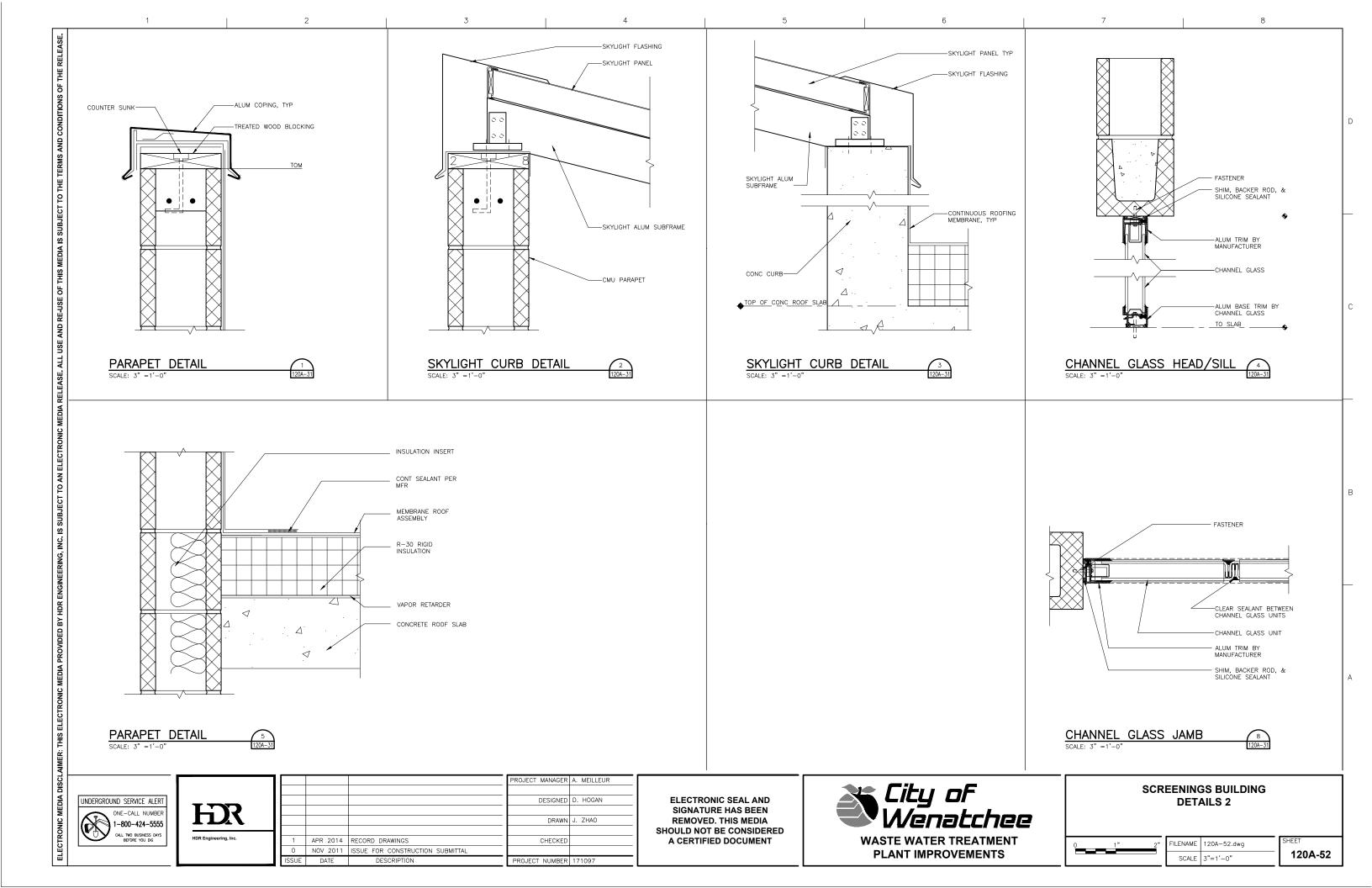
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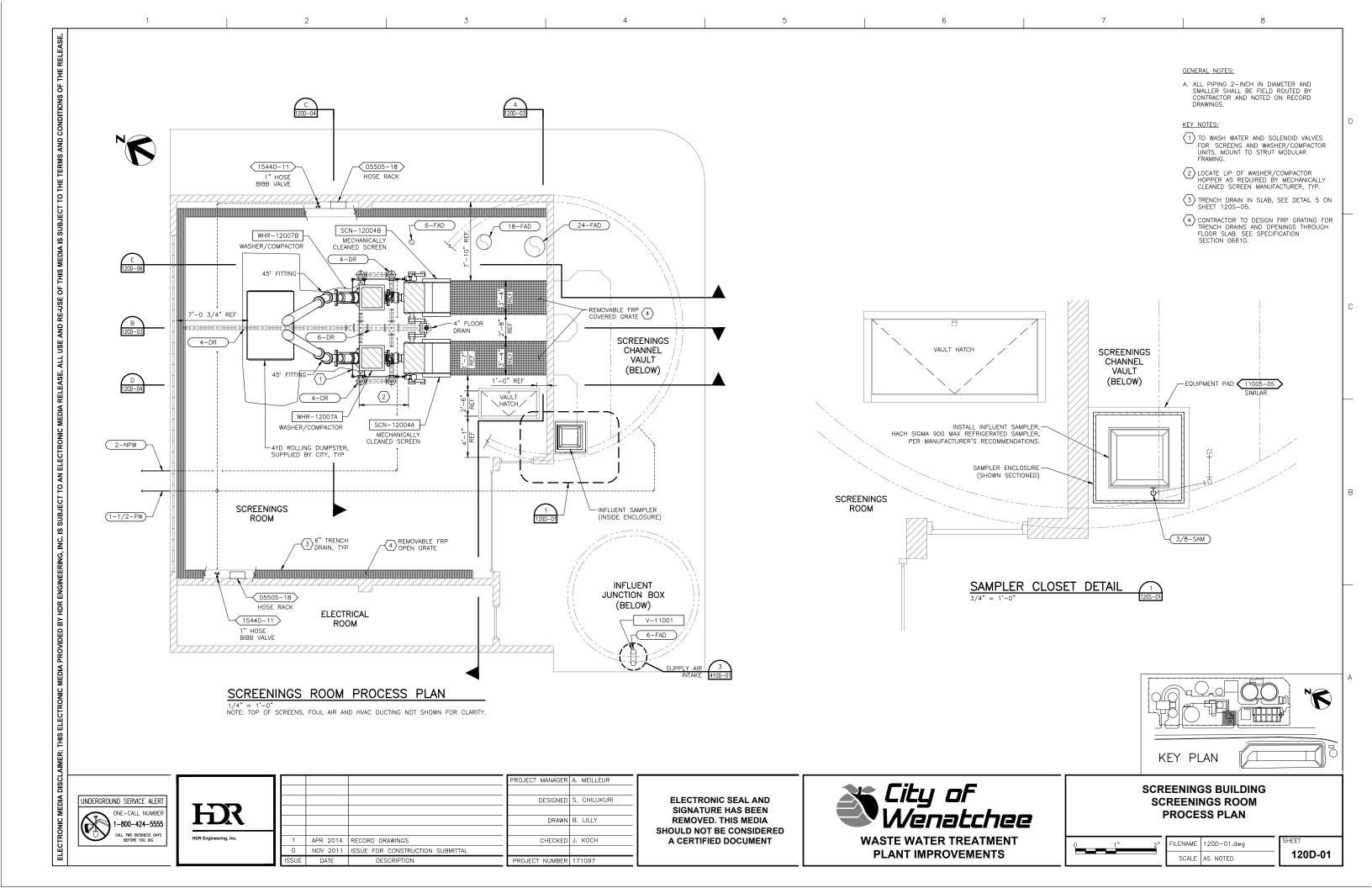
120A-21



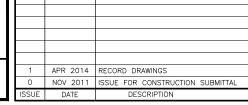






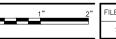




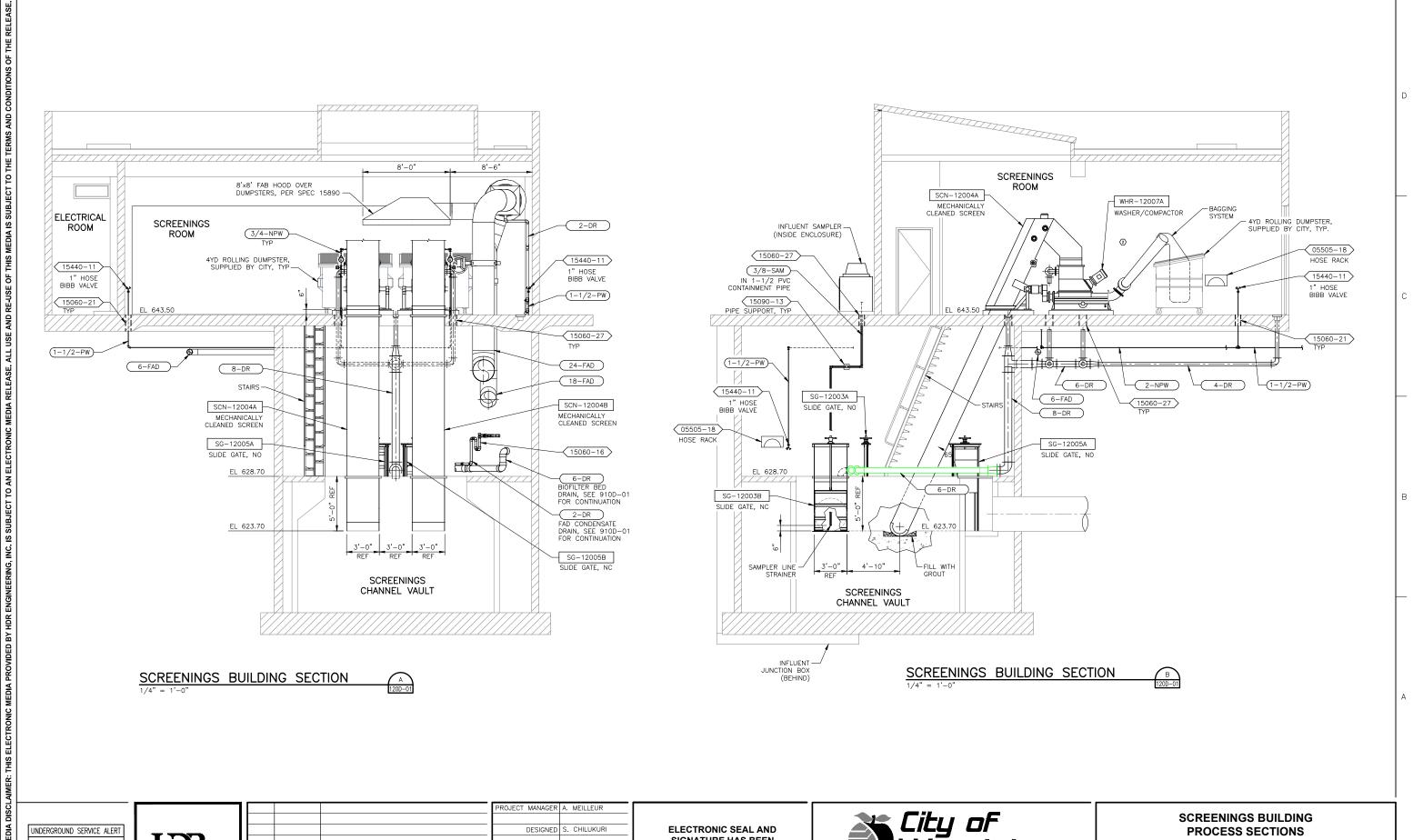


PROJECT NUMBER 171097





ILENAME	120D-02.dwg	SHEET
SCALE	AS NOTED	120D-02



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1	APR 2014	RECORD DRAWINGS	
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL	
ISSUE	DATE	DESCRIPTION	PR

DESIGNED S. CHILUKURI

DRAWN B. LILLY

CHECKED J. KOCH

PROJECT NUMBER 171097

ELECTRONIC SEAL AND SIGNATURE HAS BEEN REMOVED. THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT

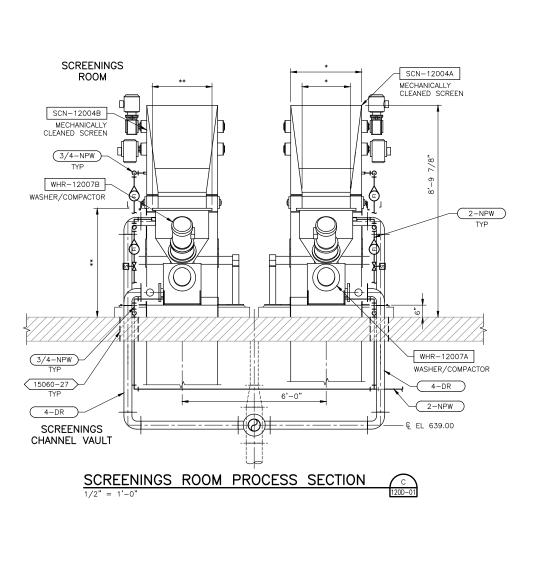


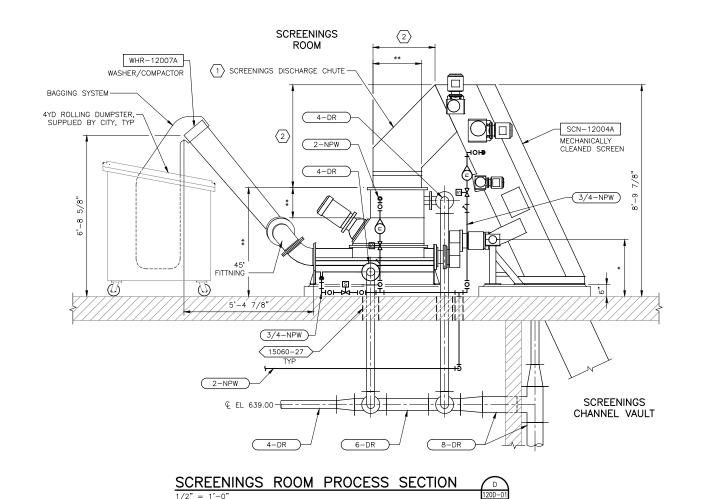
PLANT IMPROVEMENTS

1" 2" FILE

FILENAME	120D-03.dwg	SH
SCALE	AS NOTED	

120D-03





- DENOTES AS PROVIDED OR REQUIRED BY MECHANICALLY CLEANED SCREEN MANUFACTURER.
- ** DENOTES AS PROVIDE OR REQUIRED BY WASHER/COMPACTOR MANUFACTURER.

KEY NOTES:

- REMOVABLE RUBBER BOOT. MANUFACTURER TO PROVIDE BOOT FOR EACH SCREEN.
- (2) COORDINATE SIZE AND SHAPE OF MECHANICALLY CLEANED SCREEN DISCHARGE CHUTE AND SCREENINGS HOPPER ON WASHER COMPACTOR AS REQUIRED TO TRANSFER SCREENINGS BETWEEN THE TWO WITHOUT SPILLAGE, TYP.

UNDERGROUND SERVICE ALERT ONE-CALL NUMBER 1-800-424-5555

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eering, Inc.	1	APR 2014	RECORD DRAWINGS
	0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL
	ISSUE	DATE	DESCRIPTION

	PROJECT MANAGER	A. MEILLEUR
	DESIGNED	S. CHILUKURI
	DRAWN	B. LILLY
	CHECKED	J. KOCH
_	PROJECT NUMBER	171097

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SCREENINGS BUILDING SCREENINGS ROOM SECTION AND DETAILS



FILENAME	120D-04.dwg	SI
SCALE	AS NOTED	

120D-04

LOWER LEVEL PLAN

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D. HARMON

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GENERAL NOTES:

1. DUCT, FAN, DAMPER AND HOOD SUPPORTS: PROVIDE SUPPORTS AS SPECIFIED FOR PIPES. USE THE FOLLOWING STANDARD DETAILS WHERE APPROPRIATE:

15060-19 DUCT IN EXISTING WALL

15090-05 MEDIUM PIPE SUPPORT - WALL

15090-06 HEAVY PIPE SUPPORT - WALL 15090-07 HEAVY DUTY PIPE SUPPORT - WALL

15090-08 SURFACE MOUNT MODULAR STRUT

15090-17 TRAPEZE HANGER

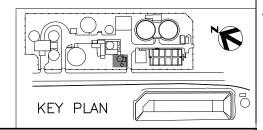
15090-95 VERTICAL DUCT SUPPORT 15090-96 ROOF DUCT SUPPORT

2. THE FAD MANUFACTURE IS RESPONSIBLE FOR LOCATING AND DESIGNING THE FAD DUCT SUPPORTS; INCLUDING THE STRUCTURAL INTEGRITY OF THE FAD. THE DESIGN SHALL BE DONE BY A LICENSED ENGINEER IN THE STATE OF WASHINGTON.

KEY NOTES:

- $\left\langle 1 \right\rangle$ FAD 2" BELOW GRATING WITH SST SCREEN.
- $\left\langle 2\right\rangle$ ROUTE DRAINS TO INFLUENT CHANNEL.
- 3 SEE 000C-05 YARD PIPING FOR CONTINUATION.
- 4 SEE 910M-01 BIOFILTER PIPING FOR CONTINUATION.
- $\overline{\left(5\right)}$ SEE 310M-01 FOR CONDENSATE DRAIN CONTINUATION.
- 6 WALL AND FLOOR PENETRATION SHALL USE STANDARD DETAIL 15060-30 AND 15060-22 WITH LINK SEAL.
- (7) STANDARD DETAIL FOR CONDENSATE DRAIN 15060-16.
- 8 DR FROM MECHANICAL SCREEN, SEE

9 CONTRACTOR TO DESIGN FRP GRATING, SEE SPECIFICATION SECTION 06600.



SCREENINGS BUILDING FOUL AIR DUCTING LOWER LEVEL PLAN



FILENAME	120D-05.dwg
SCALE	AS NOTED

120D-05

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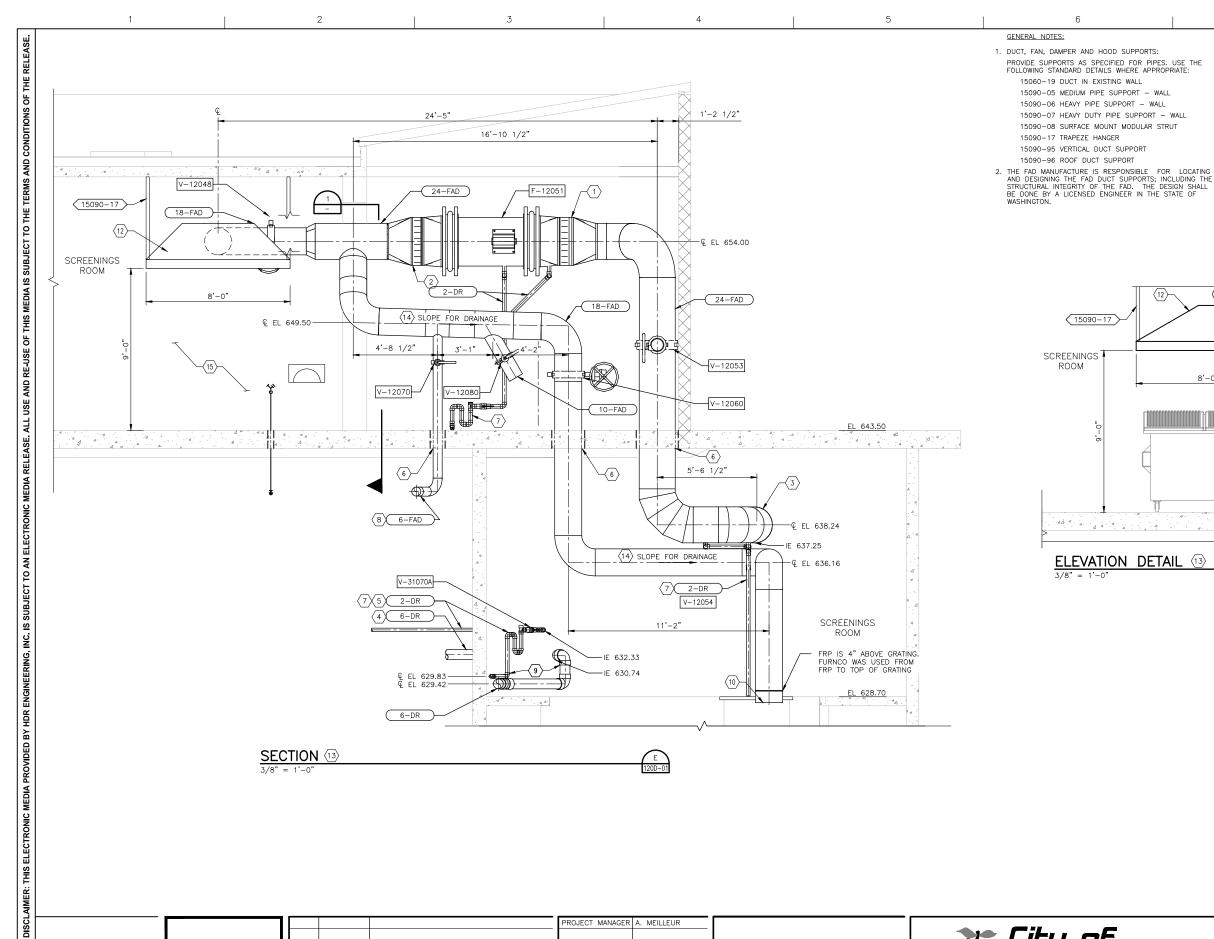
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DESIGNED DRAWN B. LILLY CHECKED J. KOCH PROJECT NUMBER 171097

PROJECT MANAGER A. MEILLEUR

PLANT IMPROVEMENTS



KEY NOTES:

1 BACKDRAFT DAMPER (BDD).

 \bigcirc GREASE FILTER (FLT).

SEE 000C-05 YARD PIPING FOR CONTINUATION.

4 SEE 910M-01 BIOFILTER PIPING FOR CONTINUATION.

5 SEE 310M-01 FOR CONDENSATE DRAIN CONTINUATION.

(6) WALL AND FLOOR PENETRATION SHALL USE STANDARD DETAIL 15060-30 AND 15060-22 WITH LINK SEAL.

T STANDARD DETAIL FOR CONDENSATE DRAIN 15060-16.

8 TO INFLUENT WET WELL, SEE PLAN.

9 ROUTE DRAINS TO INFLUENT CHANNEL.

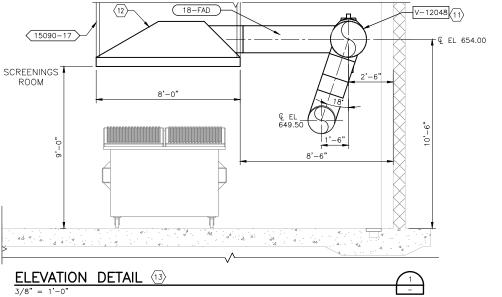
(11) CHAIN OPERATOR, NOT SHOWN.

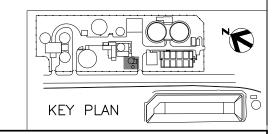
(12) 8'x8' FABRICATED HOOD OVER ROLL AWAY DUMPSTERS, PER SPECIFICATION 15890.

13 MECHANICAL SCREENS NOT SHOWN FOR CLARITY.

SLOPE MINIMUM 1/8" PER 12" FOR DRAINAGE INTO INFLUENT CHANNEL.

 $\overbrace{\mbox{15}\mbox{}}$ ROLL-AWAY DUMPSTERS NOT SHOWN FOR CLARITY.









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DESIGNED

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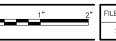
DRAWN B. LILLY

CHECKED J. KOCH



PLANT IMPROVEMENTS

SCREENINGS BUILDING FOUL AIR DUCTING SECTION AND DETAIL

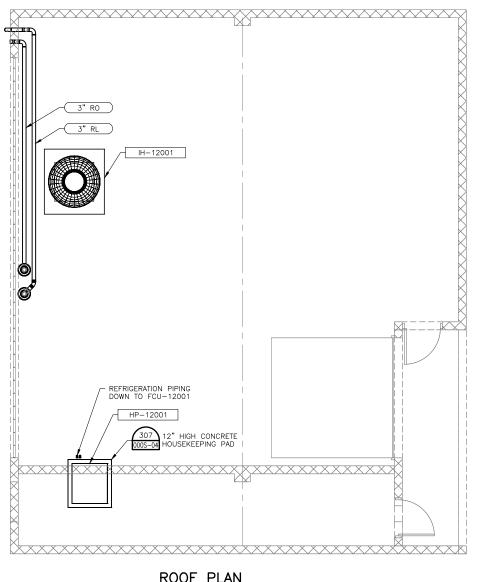


ENAME	120D-06.dwg	SHEET
SCALE	AS NOTED	120D-06

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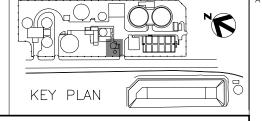
NOTES:
EQUIPMENT SUPPORTS SHOWN. ALL OTHER
DUCT SUPPORTS SHALL BE PER 15890 AND
SMACNA STANDARDS.

EDH-12001 FDC. TYP SD-12001 DUCT SMOKE DETECTOR SF-12001 - 3/4" CONDENSATE DRAIN, TERMINATE 6" AFF EDH-12001 REFRIGERATION PIPING
UP TO HP-12001,
PER MANUFACTURER VOLUME DAMPER, TYP TURNING VANES, TYP WL-12001 18X12 RETURN 685 CFM 18X12 SG-12001 TYP OF 2 TRAPEZE SUPPORT-A 120M-03 FCU-12001



ROOF PLAN

SCALE: 1/4" = 1'-0"







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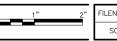
FLOOR PLAN

	PROJECT MANAGER	A. MEILLEUR	
	DESIGNED	K. CHEUNG	
_			
	DRAWN	M. DAVIS	
_			
_	CHECKED	T. KONTONICKAS	
	PROJECT NUMBER	171097	

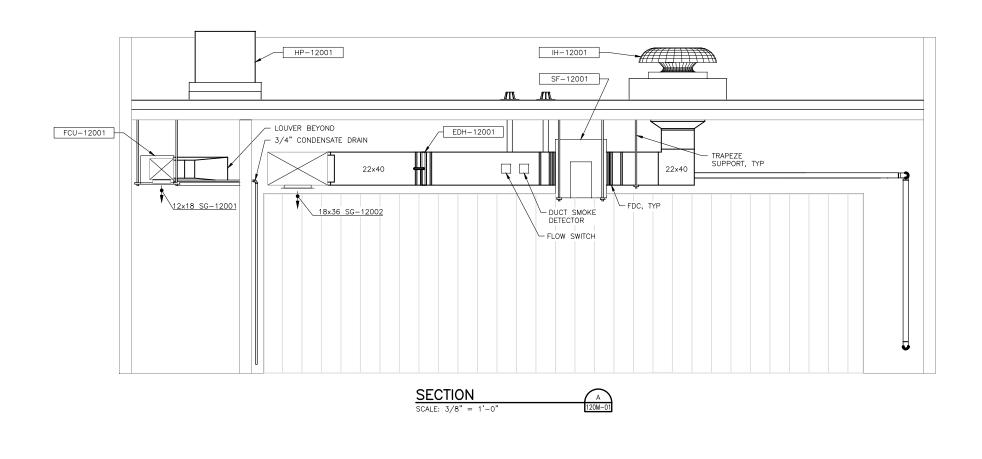
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SCREENINGS BUILDING MECHANICAL HVAC FLOOR & ROOF PLAN



ILENAME	120M-01.dwg	SHEET
SCALE	1/4"=1'-0"	120M-01



UNDERGROUND SERVICE ALERT

ONE-CALL NUMBER

1-800-424-5555

CALL TWO BUSINESS DAYS
BEFORE YOU DIG

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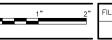


			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	K. CHEUNG
			DRAWN	M. DAVIS
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SCREENINGS BUILDING MECHANICAL HVAC SECTIONS



FILENAME	120M-02.dwg	SI
SCALE	3/8"=1'-0"	

120M-02

SUPPLY GRILLE SCHEDULE

SYMBOL	MANUFACTURER & MODEL #	NOMINAL DUCT SIZE (IN)	CFM	REMARKS
SG-12001	TITUS 301FS OR EQUAL	18x12	350	ALUMINUM WITH 3/4" SPACING AND SINGLE DEFLECTION REGISTER
SG-12002	TITUS 301FS OR EQUAL	36x18	2,035	ALUMINUM WITH 3/4" SPACING AND SINGLE DEFLECTION REGISTER

WALL LOUVER SCHEDULE

SYMBOL	MANUFACTURER & MODEL #	CFM	DIMENSION	REMARKS
WL-12001	RUSKIN ELF375DX OR EQUAL	700	40x16	

ELECTRIC DUCT HEATER SCHEDULE

SYMBOL	MANUFACTURER & MODEL #	LOAD (KW)	DUCT DIMENSION	WEIGHT (LBS)	VOLTAGE/PHASE/HZ	REMARKS
EDH-12001	INDEECO ULTRA SAFE DUCT HEATER M SERIES OR EQUAL	113.0	42×22	730.0	100 /7 /00	ELECTRIC EXPLOSION PROOF DUCT HEATER APPROVED FOR CLASS I, DIVISION 2, GROUP D. PROVIDE SOLID STATE PROPORTIONAL CONTROL WITH BUILT IN ZERO CROSS SWITCHING AND FIELD INSTALLED THERMOSTAT. PROVIDE DISCONNECT SWITCH, AIRFLOW SWITCH, WARNING PILOT LIGHT, AND HEATER ON PILOT LIGHT. MOUNT UNIT PER MANUFACTURER RECOMMENDATIONS.

IN-LINE SUPPLY FAN SCHEDULE

SYMBOL	MANUFACTURER & MODEL #	CFM	ESP (IN W.C.)	VOLTS/PHASE	POWER (HP)	WEIGHT (LBS)	REMARKS
SF-12001	GREENHECK BSQ-240HP-50 OR EQUAL	6,100	2.0	460/3	5.0	420.0	PROVIDE FACTORY HANGING SPRING ISOLATOR. PROVIDE DUCT SMOKE DETECTOR AND FLOW SWITCH MOUNTED IN DUCTWORK.

SPLIT SYSTEM HEAT PUMP SCHEDULE

SYMBOL	MANUFACTURER & MODEL #	MINIMUM SUPPLY FAN CFM	E.S.P.	SUPPLY FAN HP	MINIMUM OUTSIDE AIR (CFM)	VOLTAGE/ PHASE	COOLING CAPACITY TOTAL (MBH)	SEER	COOLING ENTERING/LEAVING AIR TEMP (F)	HEATING CAPACITY @ 47F/17F (MBH)	COP @ 47F/17F	SUMMER/WINTER OUTDOOR AMBIENT (F)	OPERATING WEIGHT (LBS)	REMARKS
FCU-12001	CARRIER FX4CNF024 OR EQUAL	700	0.4	0.33	15.0	208/1	23.4		85/55			SUMMER = 95 F WINTER = 10 F		INSTALL AND SIZE REFRIGERANT PIPING PER MANUFACTURER INSTRUCTION AND RECOMMENDATION. PROVIDE ALL REQUIRED MANUFACTURER ACCESSORIES FOR A COMPLETE WORKABLE SYSTEM. R-410A. PROVIDE MATCHING CANPAE (OR EQUAL) MXING BOX FOR ECONOMIZER CYCLE.
HP-12001	CARRIER 25HPA424 OR EQUAL					208/1		14		23.8/14.6	3.64/2.58	SUMMER = 95 F WINTER = 10 F	230	MCA=16.73

BAROMETRIC RELIEF DAMPER SCHEDULE

SYMBOL	MANUFACTURER & MODEL #	NOMINAL SIZE (IN)	CFM	REMARKS
BRD-12001	RUSKIN BD2/A2 OR EQUAL	16x8	700	VERTICAL MOUNT, HORIZONTAL FLOW. GALVANIZED STEEL, FLANGE ON DISCHARGE WITH BIRD SCREEN

GRAVITY INTAKE HOOD

SYMBOL	MANUFACTURER & MODEL #	THROAT SIZE (IN)	DIMENSIONS	AIRFLOW (CFM)
IH-12001	LOREN COOK GI OR EQUAL	36"x36"	65"x60"x22"	6,100

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			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	K. CHEUNG
			DRAWN	M. DAVIS
1	APR 2014	RECORD DRAWINGS	CHECKED	T. KONTONICK
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T. KONTONICKAS



SEQUENCE OF OPERATION

SF-12001 (SCREENING ROOM):

SUMMER: SF-12001 SHALL RUN CONTINUOUSLY.
WINTER: SF-12001 SHALL RUN CONTINUOUSLY. ON A CALL FROM THE ROOM THERMOSTAT ELECTRIC DUCT

HEATER (EDH-12001) WILL BE ENERGIZED TO MAINTAIN ZONE HEATING TEMPERATURE SETPOINT AT 45 DEGREE

SF-12001 SHALL BE FITTED WITH A DUCT MOUNTED FLOW DETECTION DEVICE CONNECTED TO ALARM SIGNALING SYSTEM (SCADA) TO INDICATE VENTILATION SYSTEM FAILURE. WIRING PER DIVISION 13 AND 16.

LOCAL AND REMOTE ALARMS FOR VENTILATION SYSTEM FAILURE (AS DETECTED BY FLOW SWITCH) SHALL BE PROVIDED.

IF SMOKE IS DETECTED BY THE SUPPLY DUCT SMOKE DETECTOR, THEN SF-12001 AND EDH-12001 SHALL SHUT OFF AND SIGNAL AN ALARM AT SCADA TO INDICATE SYSTEM SHUT DOWN. WIRING PER DIVISION 1.3 AND 16.

FCU-12001/HP-12001 (ELECTRICAL ROOM):

SUMMER: UNIT SHALL RUN CONTINUOUSLY TO MAINTAIN THE ROOM AT 85 DEGREE F (ADJUSTABLE) SETPOINT. WINTER: UNIT SHALL RUN CONTINUOUSLY. ON A CALL FROM THE ROOM THERMOSTAT THE UNIT SHALL ENABLE HEATING TO MAINTAIN ZONE HEATING TEMPERATURE SETPOINT AT 60 DEGREE F (ADJUSTABLE).

ZONE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF A DEADBAND OF AT LEAST 5 DEGREE F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM.

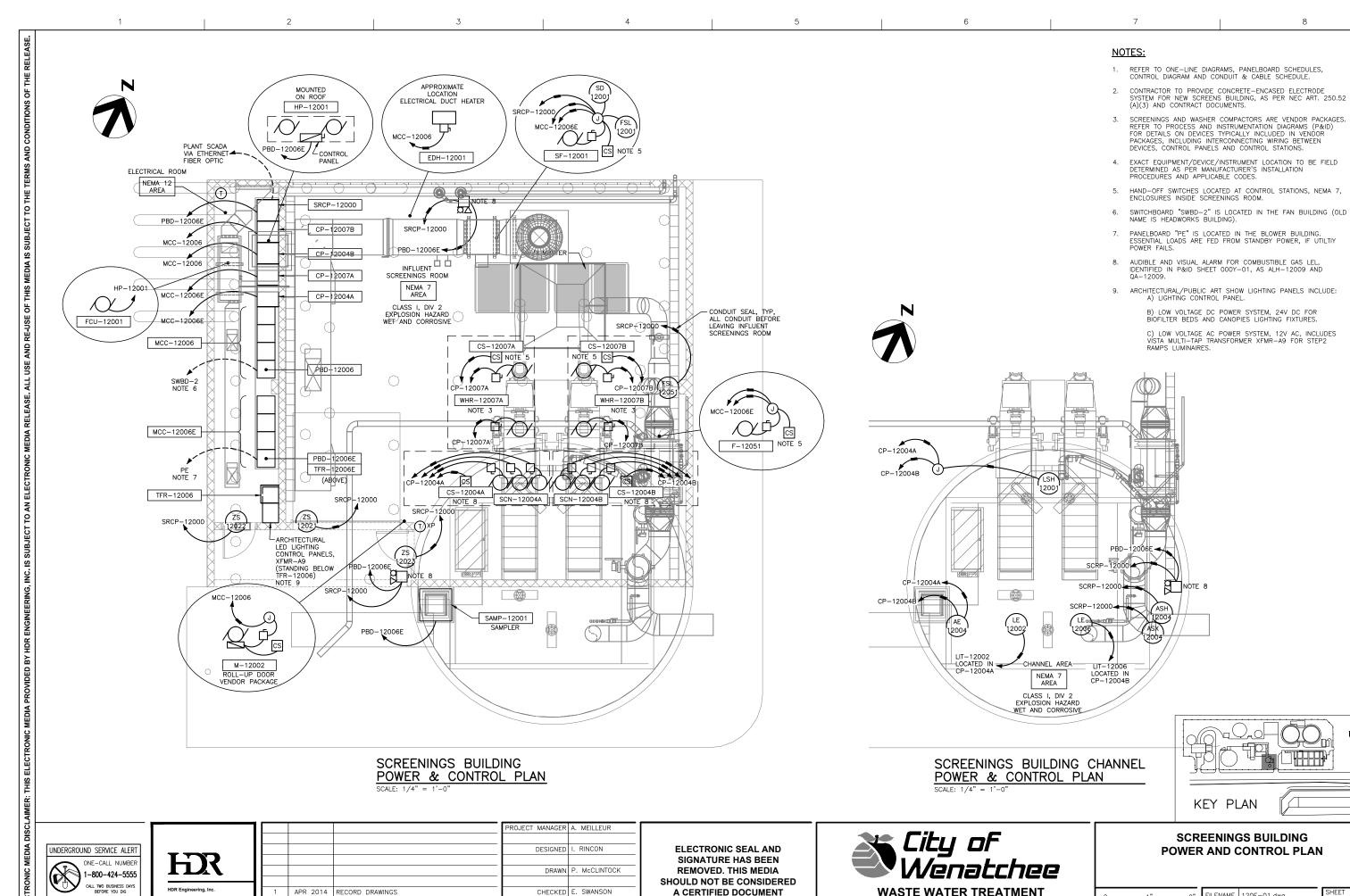
ECONOMIZER MODE: THE ECONOMIZER CYCLE SHALL BE ENABLED WHENEVER THE OUTDOOR AIR TEMPERATURE IS BETWEEN 48F AND 72F (ADJUSTABLE) AND ALSO LESS THAN THE RETURN AIR TEMPERATURE. THE ECONOMIZER DAMPERS SHALL REMAIN AT THEIR MINIMUM OUTDOOR AIR POSITION WHENEVER THE ECONOMIZER CYCLE IS DISABLED. ECONOMIZER SHALL BE ACTIVATED WHEN APPROPRIATE AS THE FIRST STACE OF COOLING. AIR ECONOMIZER SHALL BE CAPABLE OF AUTOMATICALLY MODULATING OUTSIDE AND RETURN AIR COMPANY OF THE PROPERTY O DAMPERS TO PROVIDE 100% OF THE DESIGN SUPPLY AIR AS OUTSIDE AIR TO ELIMINATE MECHANICAL COOLING. BAROMETRIC RELIEF DAMPER (BRD-12001) SHALL BE OPENED TO MAINTAIN ROOM NOT TO EXCEED 0.1°W.C. (ADJUSTABLE).

> **SCREENINGS BUILDING MECHANICAL HVAC SCHEDULES** & SEQUENCE OF OPERATION



FILENAME	120M-03.dwg
CCALE	NONE

120M-03



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DESCRIPTION

PROJECT NUMBER 171097

ISSUE DATE

2" FILENAME 120E-01.dwg SHEET

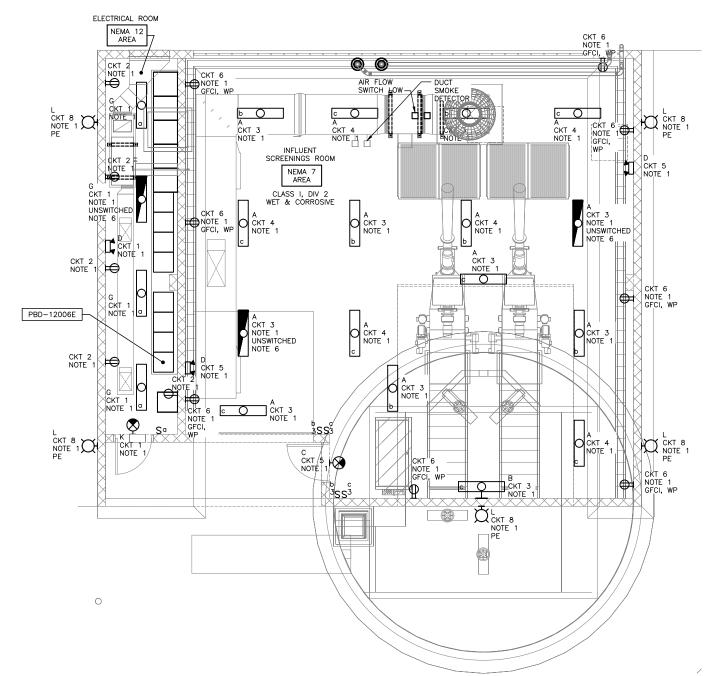
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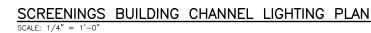
SCALE 1/4" = 1'-0"

PLANT IMPROVEMENTS

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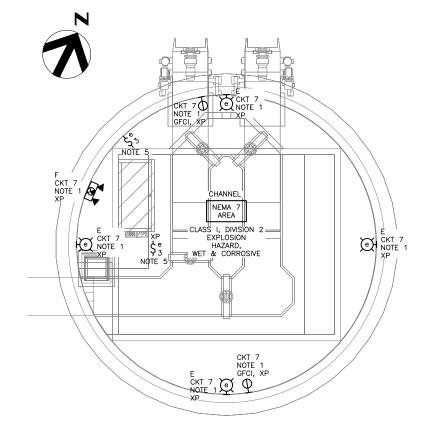
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NOTES:

- LIGHTING FIXTURES AND RECEPTACLES POWERED FROM PANELBOARD PBD-12006E.
- 2. PANELBOARD SCHEDULES SHOWN ON SHEET 000E-08.
- FIXTURE MOUNTING HEIGHTS ARE THE PREFERRED LEVEL OF FEET ABOVE FINISHED FLOOR (AFF). MOUNTING HEIGHTS AND LOCATIONS SHALL BE FIELD ADJUSTED AS PRACTICAL TO AVOID INTERFERENCES WITH PIPING, HVAC EQUIPMENT, DUCTWORK, SKYLIGHTS, ETC.
- LIGHTING FIXTURE SCHEDULE IS SHOWN ON SHEET 000E-14.
- CHANNEL AREA LIGHT SWITCH IS LOCATED NEXT TO THE ENTRANCE HATCH IN THE SCREENINGS ROOM, ON THE WALL. A SECOND SWITCH (EXPLOSION—PROOF), IS LOCATED AT THE BOTTOM OF THE STAIRS IN THE CHANNEL.
- LIGHTING FIXTURE PROVIDED WITH EMERGENCY BATTERY PACK.



KEY PLAN

SCREENINGS BUILDING LIGHTING PLAN

UNDERGROUND SERVICE ALERT ONE-CALL NUMBER 1-800-424-5555



			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	I. RINCON
			DRAWN	P. McCLINTOC
1	APR 2014	RECORD DRAWINGS	CHECKED	E. SWANSON
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DESIGNED RINCON DRAWN P. McCLINTOCK CHECKED . SWANSON ROJECT NUMBER 171097

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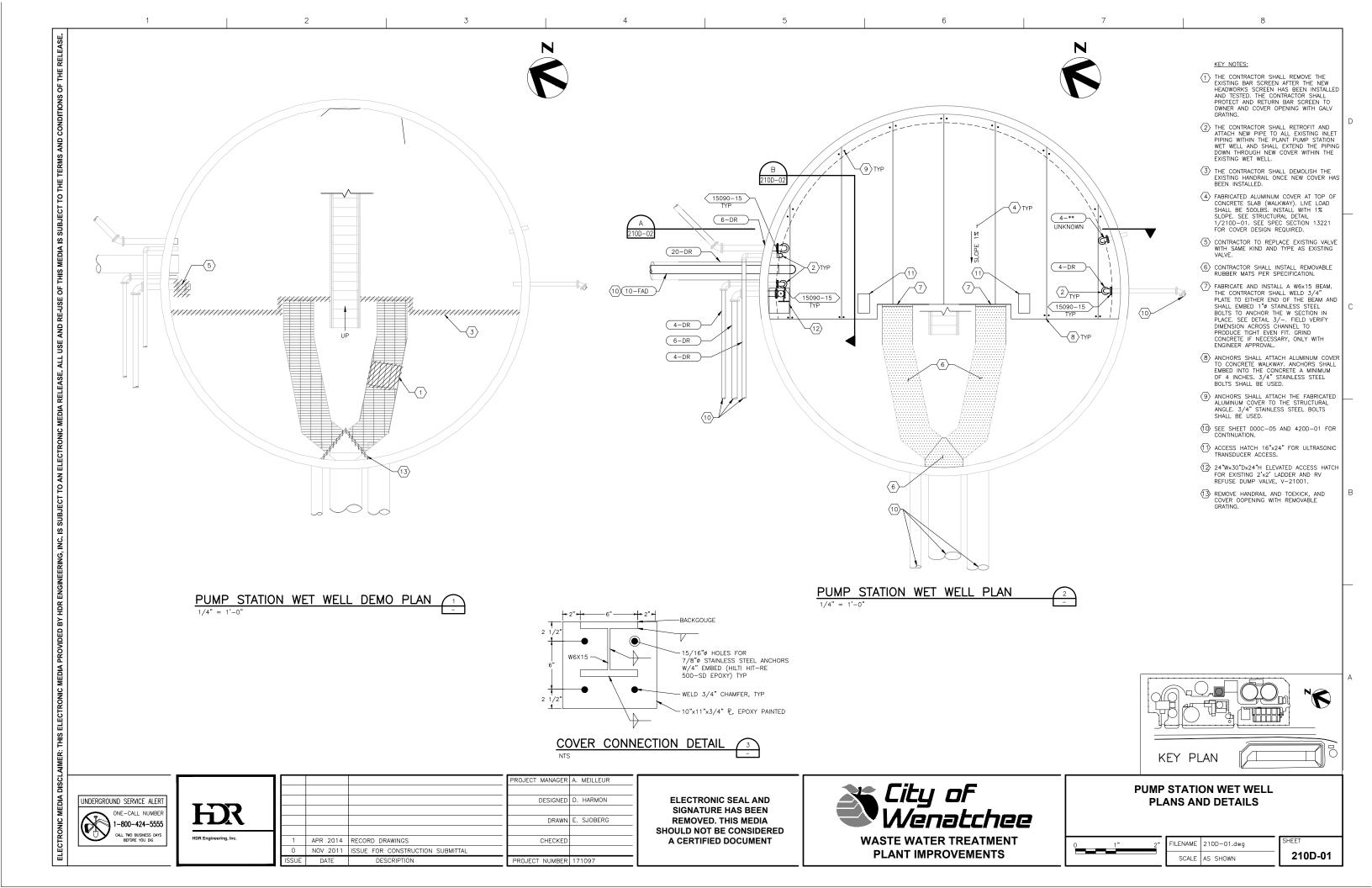
PLANT IMPROVEMENTS

SCREENINGS BUILDING LIGHTING PLAN



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120E-02



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-(10-FAD FAD @ EL 636.00' 4-DR (4-DR 15090-15 6-DR 20-DR

PUMP STATION WET WELL SECTION

KEY NOTES:

- (T) FABRICATED ALUMINUM COVER. BOTTOM OF COVER AT TOP OF CONCRETE SLAB (WALKWAY). LIVE LOAD SHALL BE 500LBS. LIVE LOAD SHALL BE 500LBS.
- (2) 6"x6"x3/4" STRUCTURAL ANGLE. STAINLESS STEL ANCHORS SHALL EMBED 6" INTO CONCRETE WALL. BOLTS SHALL BE 1/4"ø, SPACED 2' O.C. SEE SPECIFICATIONS.
- $\ensuremath{\overline{3}}$ ELEVATED HATCH FOR ACCESS TO RUNG LADDER AND RV REFUSE DUMP VALVE, V-21001.
- (4) PENETRATION THROUGH ALUMINUM TANK COVER, FLASHED AND SEALED PER SPECIFICATION SECTION 13221, TYPICAL ALL PENETRATIONS.

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4-DR

_(20-DR)

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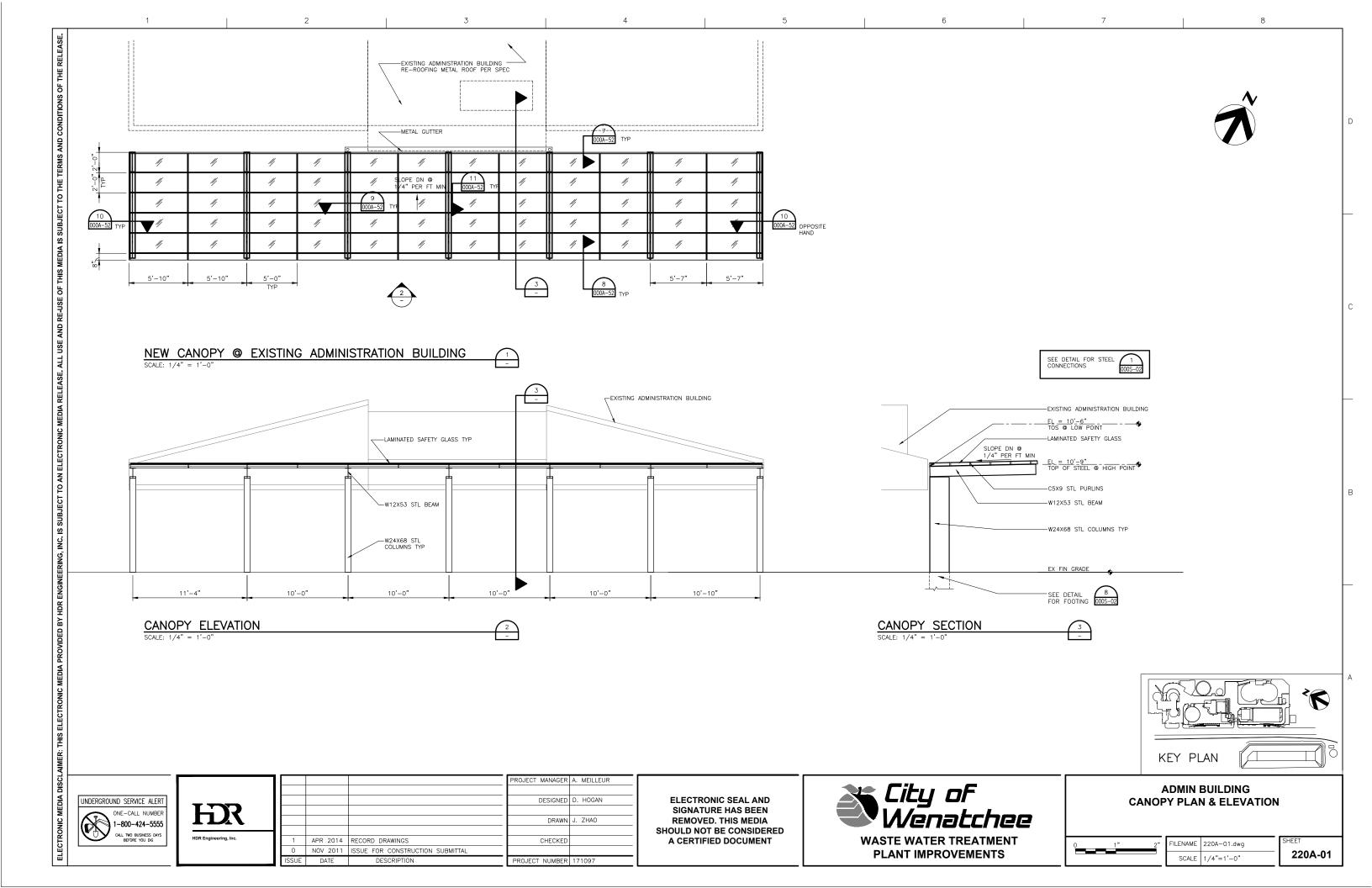


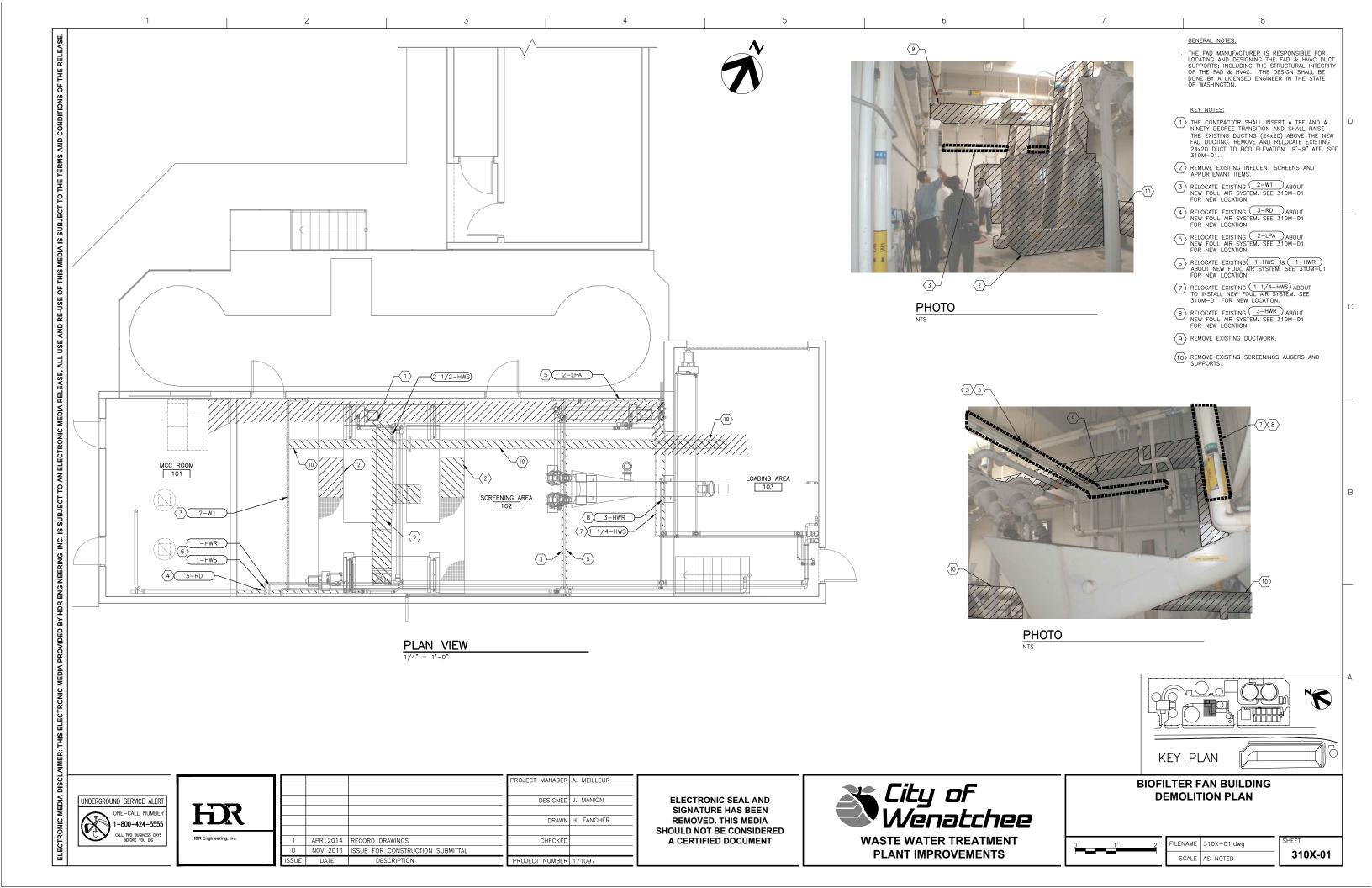
PUMP STATION WET WELL	
SECTION AND DETAILS	

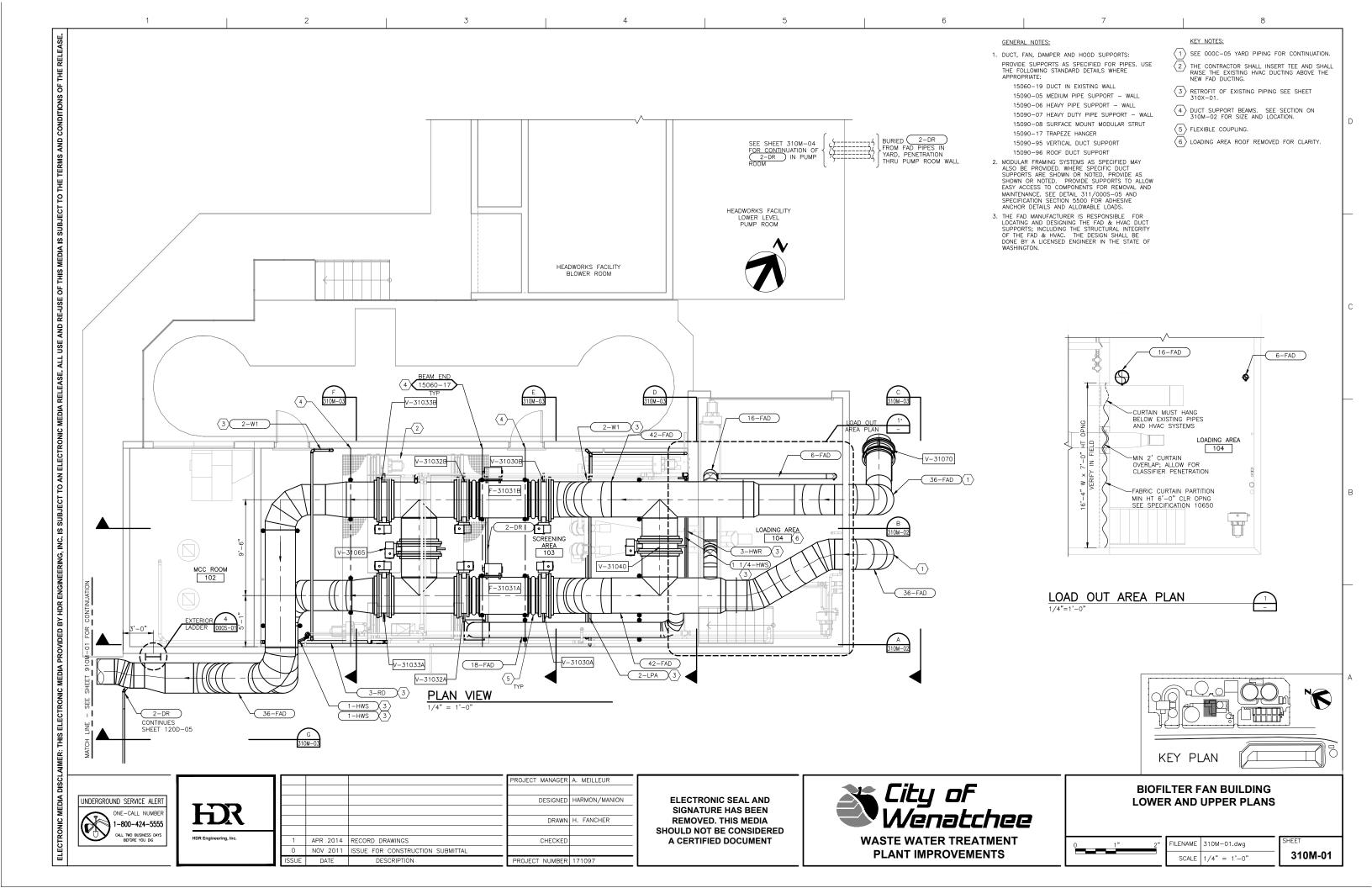


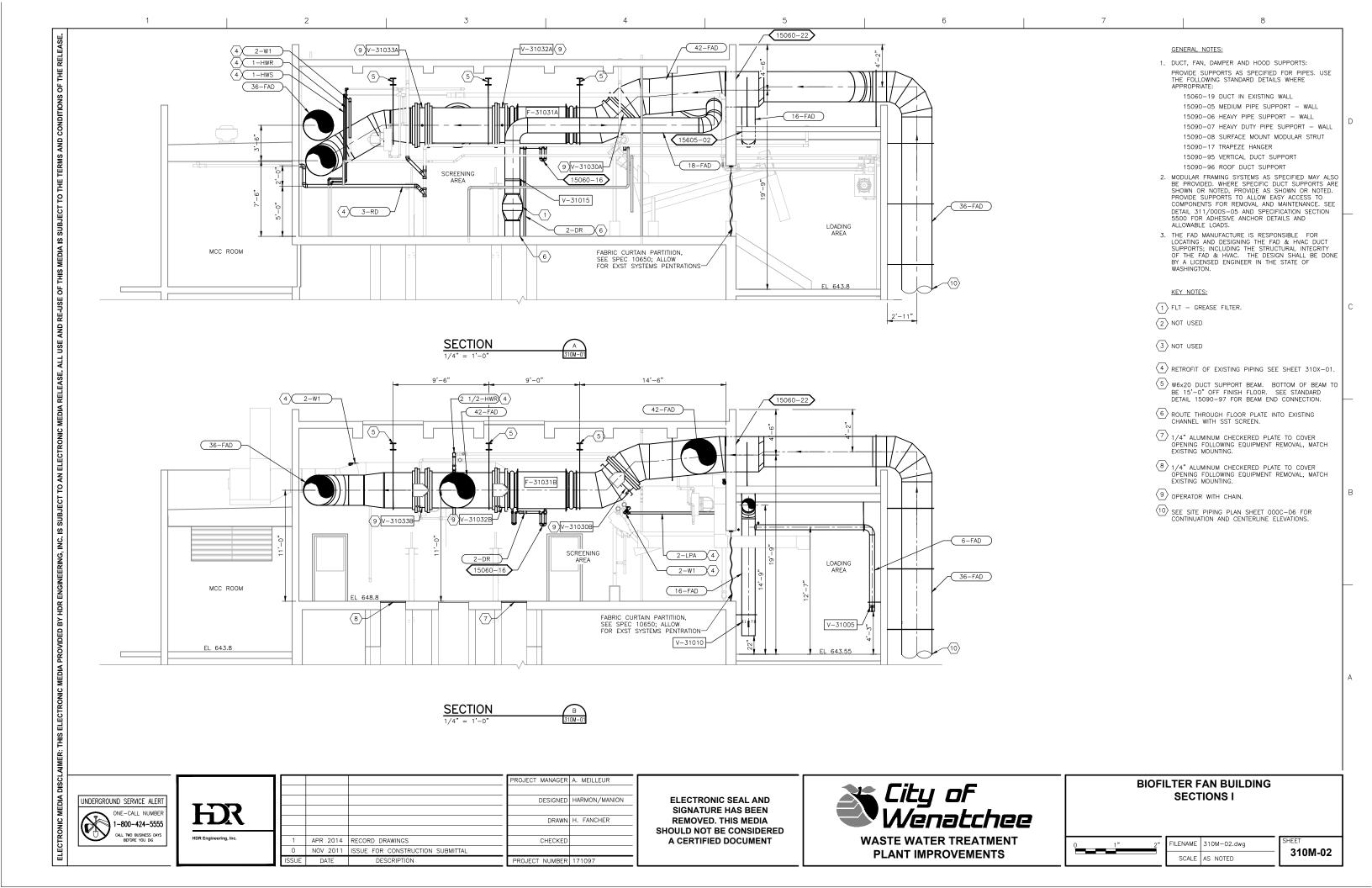
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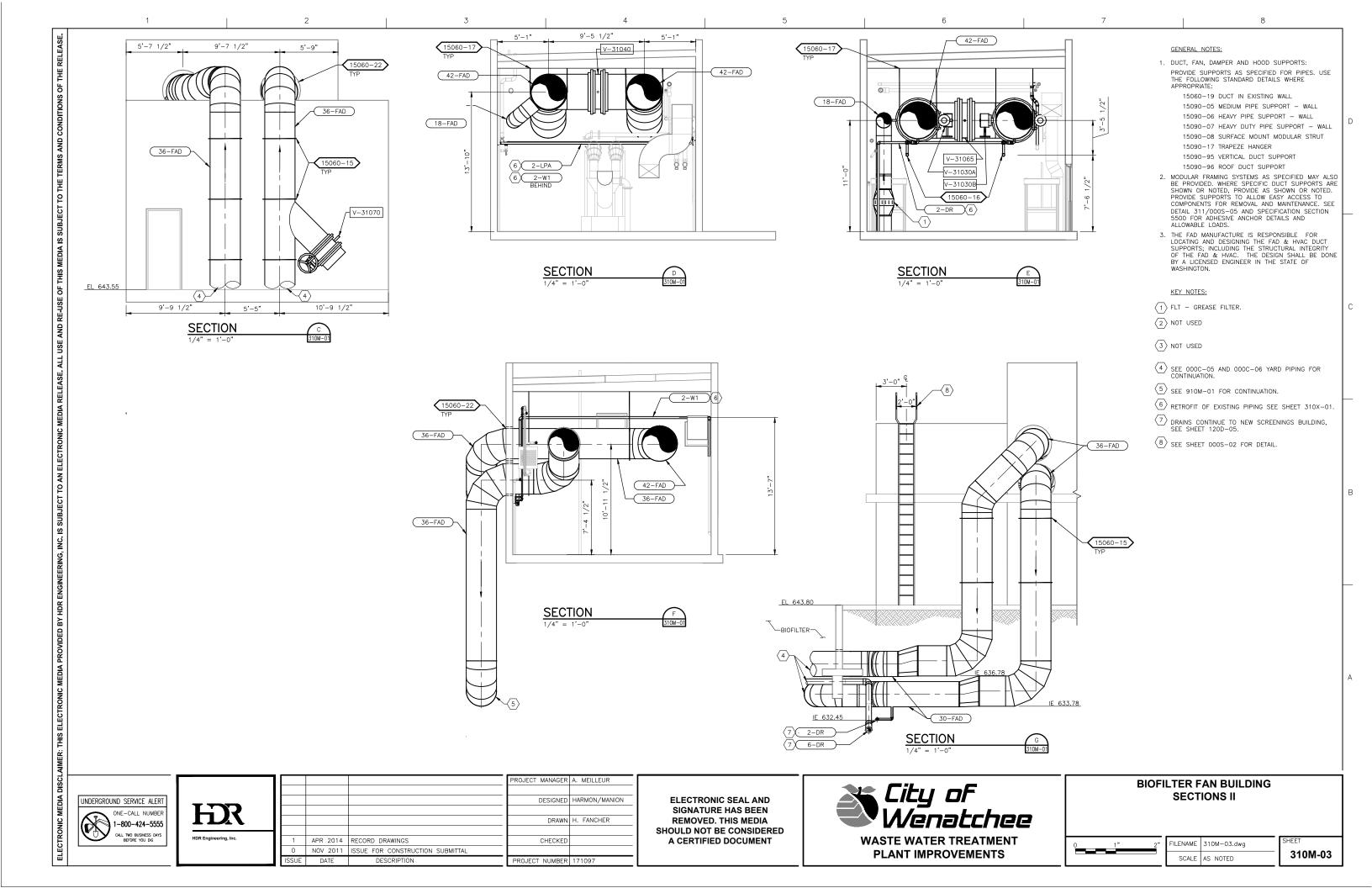
210D-02

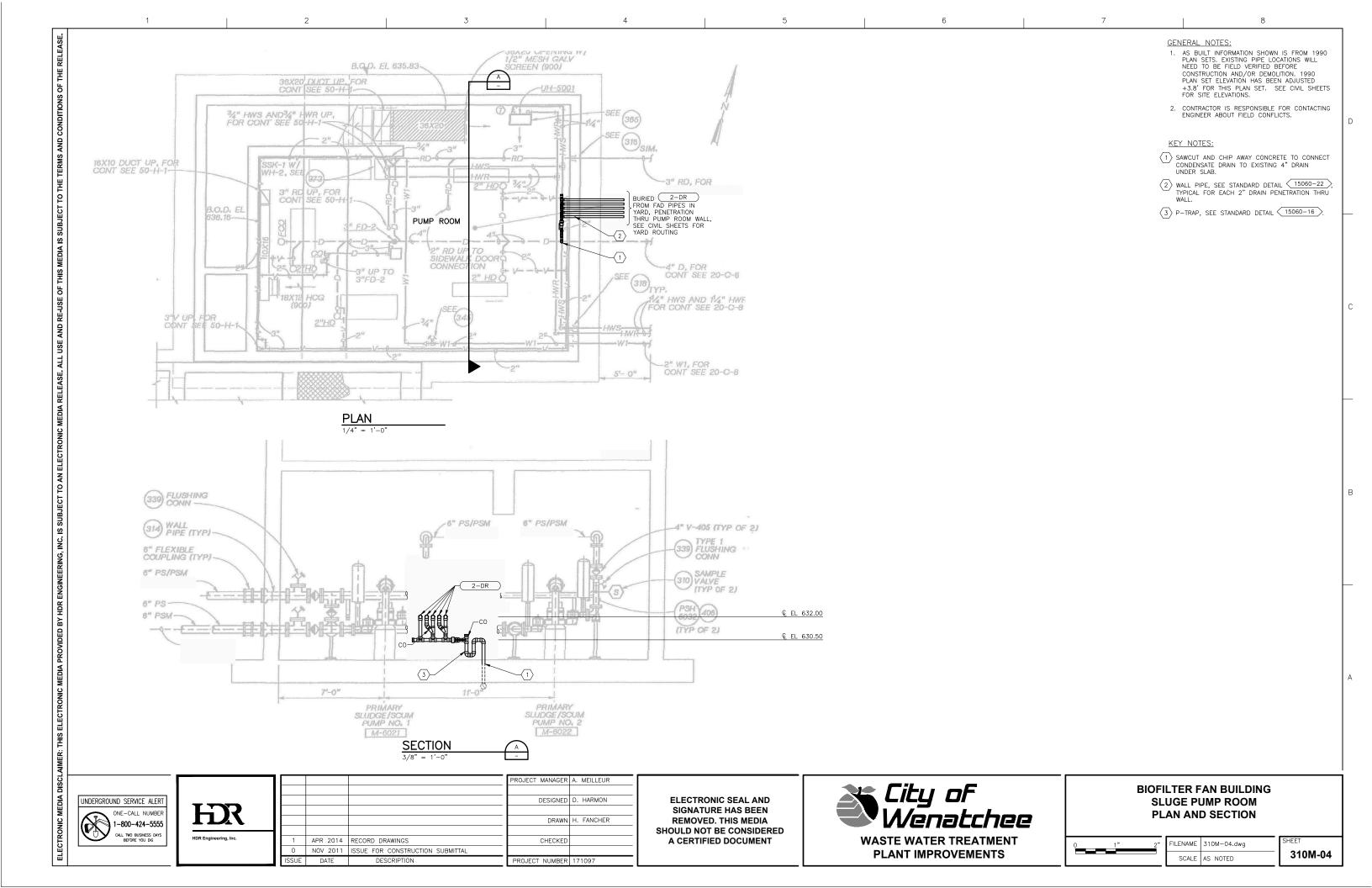


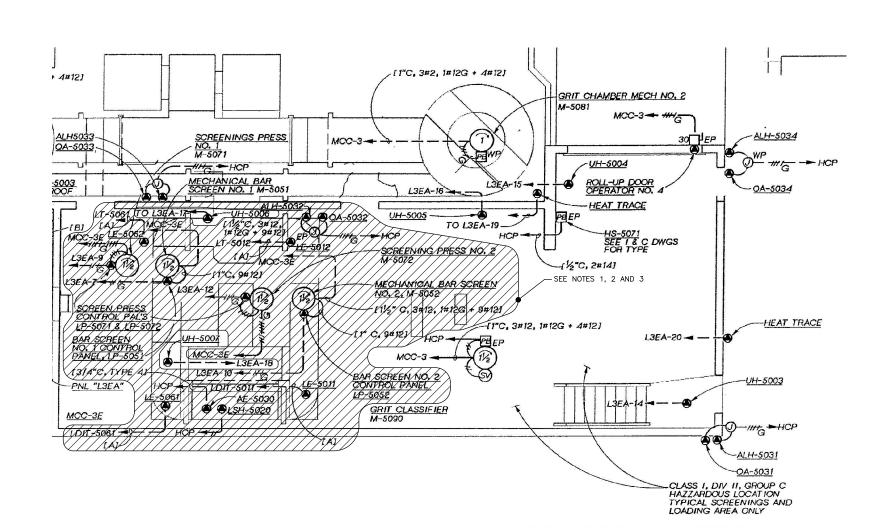








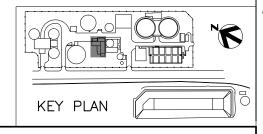




NOTES:

- CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO DISCONNECTION AND REMOVAL OF ANY ELECTRICAL EQUIPMENT, INCLUDING POWER, SIGNAL, CONTROL WIRING, RACEWAY ASSOCIATED WITH BAR SCREENS AND SCREEN PRESSES.
- 2. REMOVE EQUIPMENT INSIDE DASHED LINE AREA AS PER CONTRACT DOCUMENTS
- 3. PROTECT AND MAINTAIN UNIT HEATERS UH-5006 AND UH-5007 AND ASSOCIATED RACEWAY AND WIRING TO REMAIN.
- FOR EXISTING CONDITIONS REFER TO RECORD DRAWINGS:

 1992 DWG E-4, E-7, E-8 FOR POWER, LIGHTING AND CONTROL PLANS, RESPECTIVELY





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	PROJECT MANAGER	A. MEILLEUR	ı
			ı
	DESIGNED	I. RINCON	ı
			ı
	DRAWN	L. KELLER	ı
			ı
	CHECKED	E. SWANSON	ı
			ı
_	PROJECT NUMBER	171097	

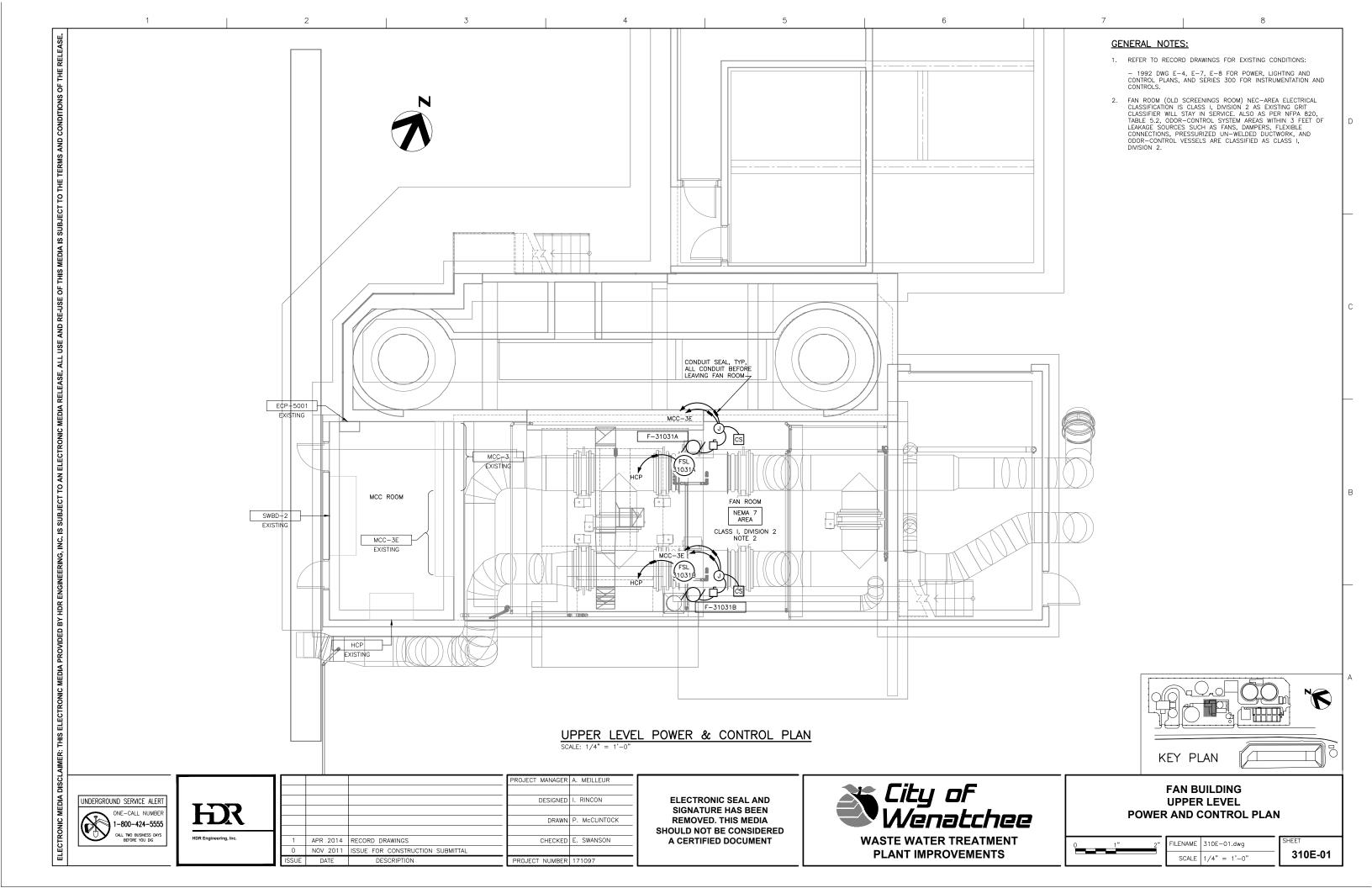
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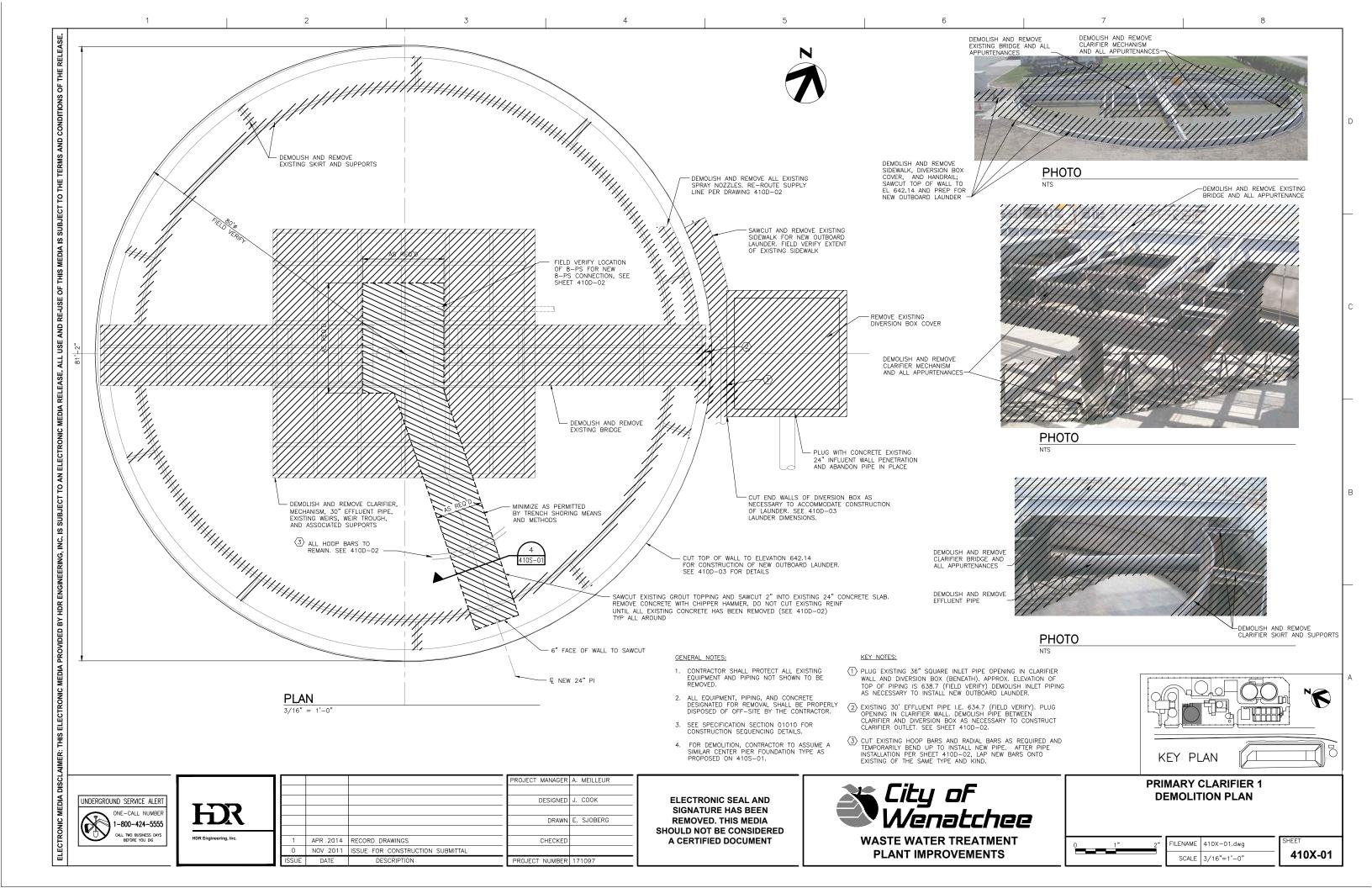


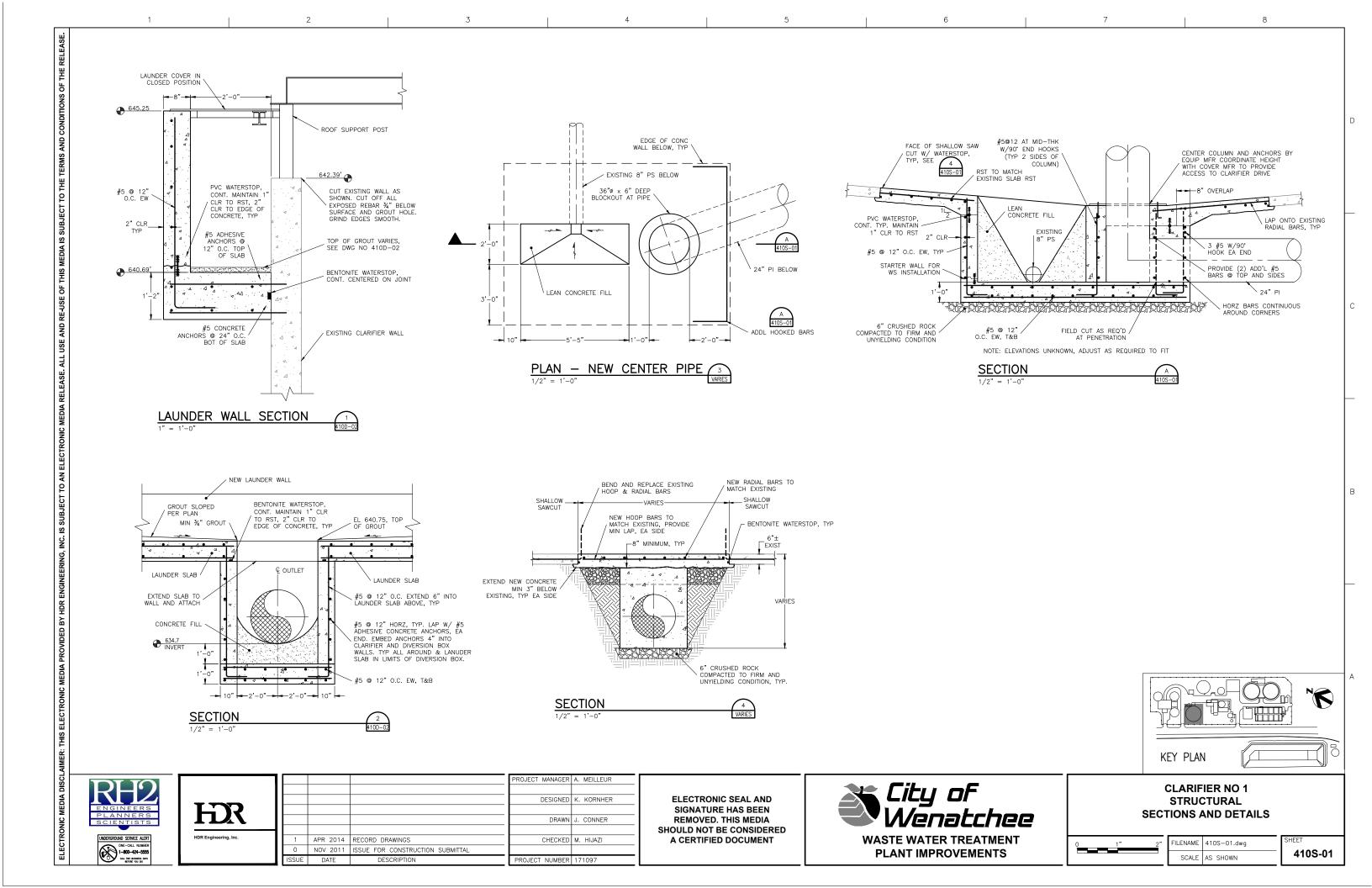
EXISTING HEADWORKS BUILDING POWER AND CONTROL DEMOLITION PLAN

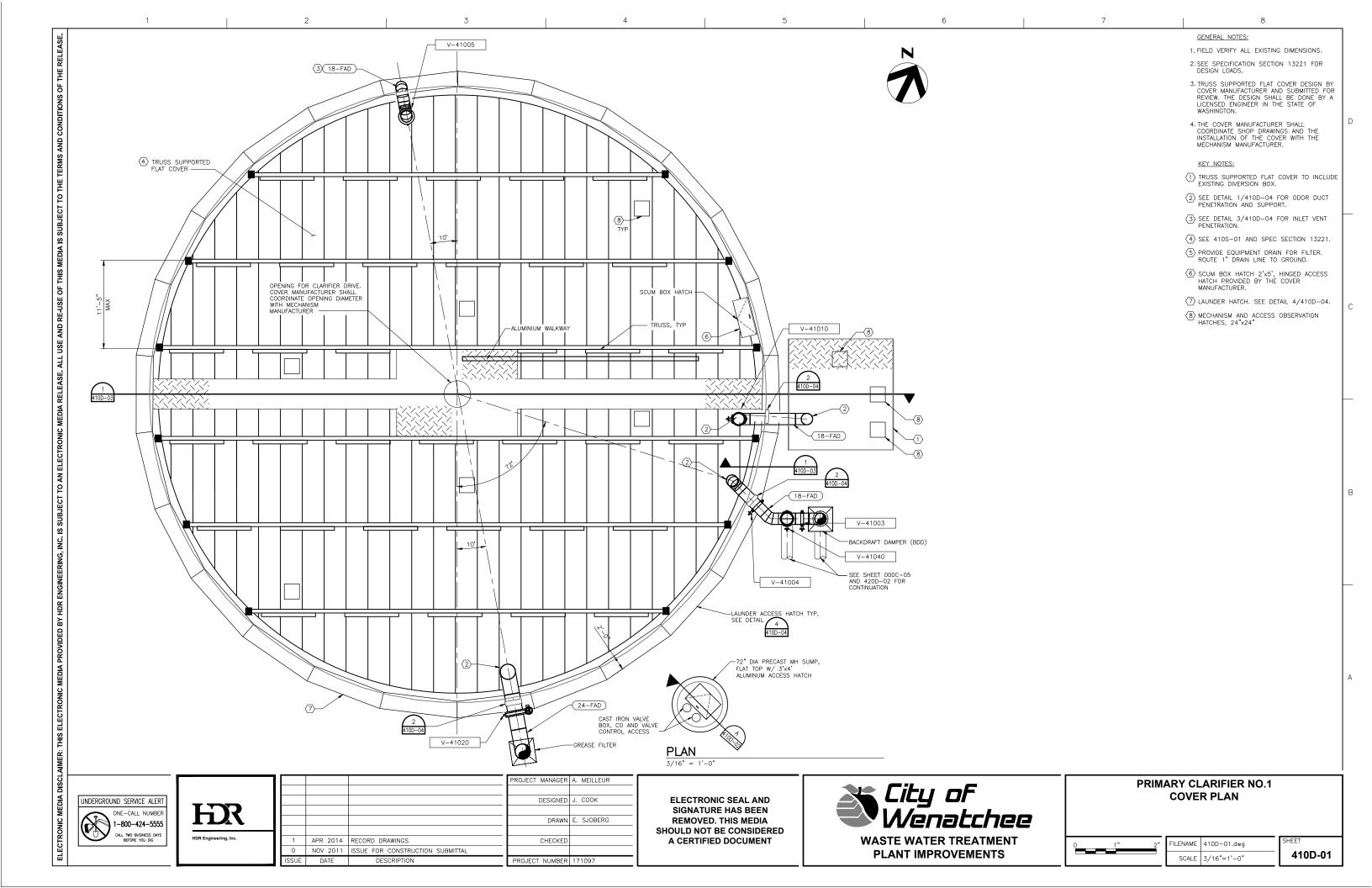


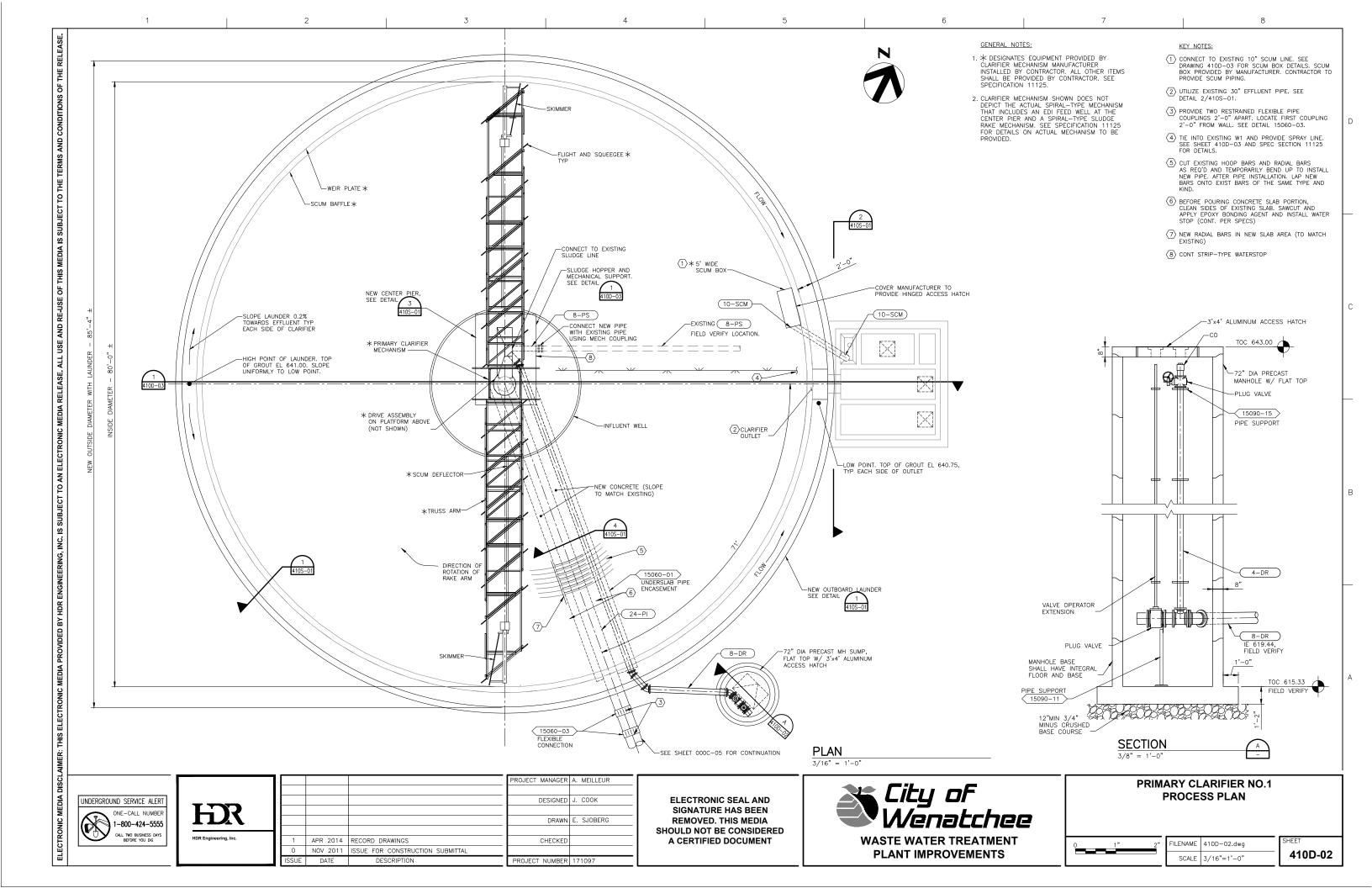
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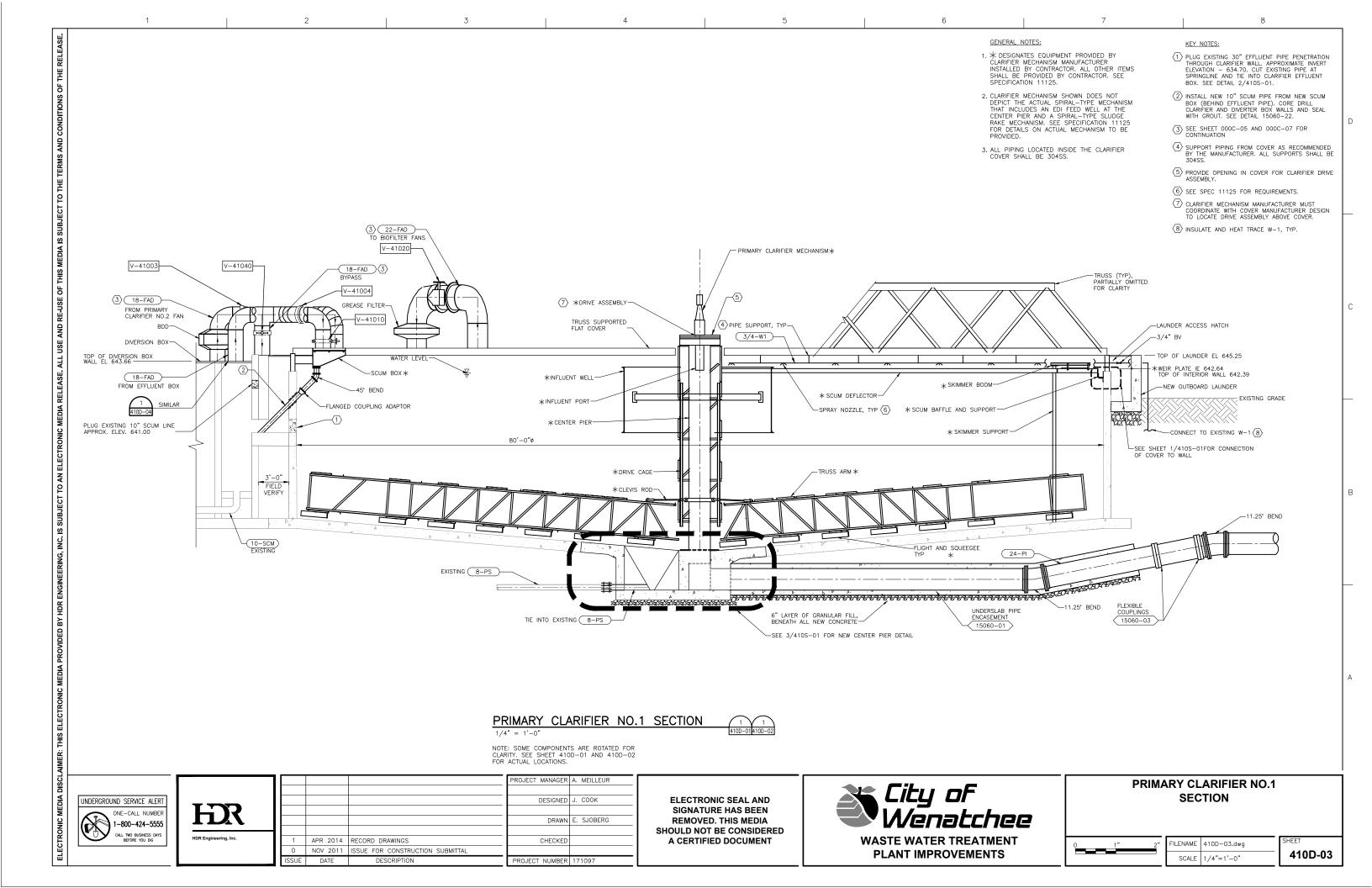


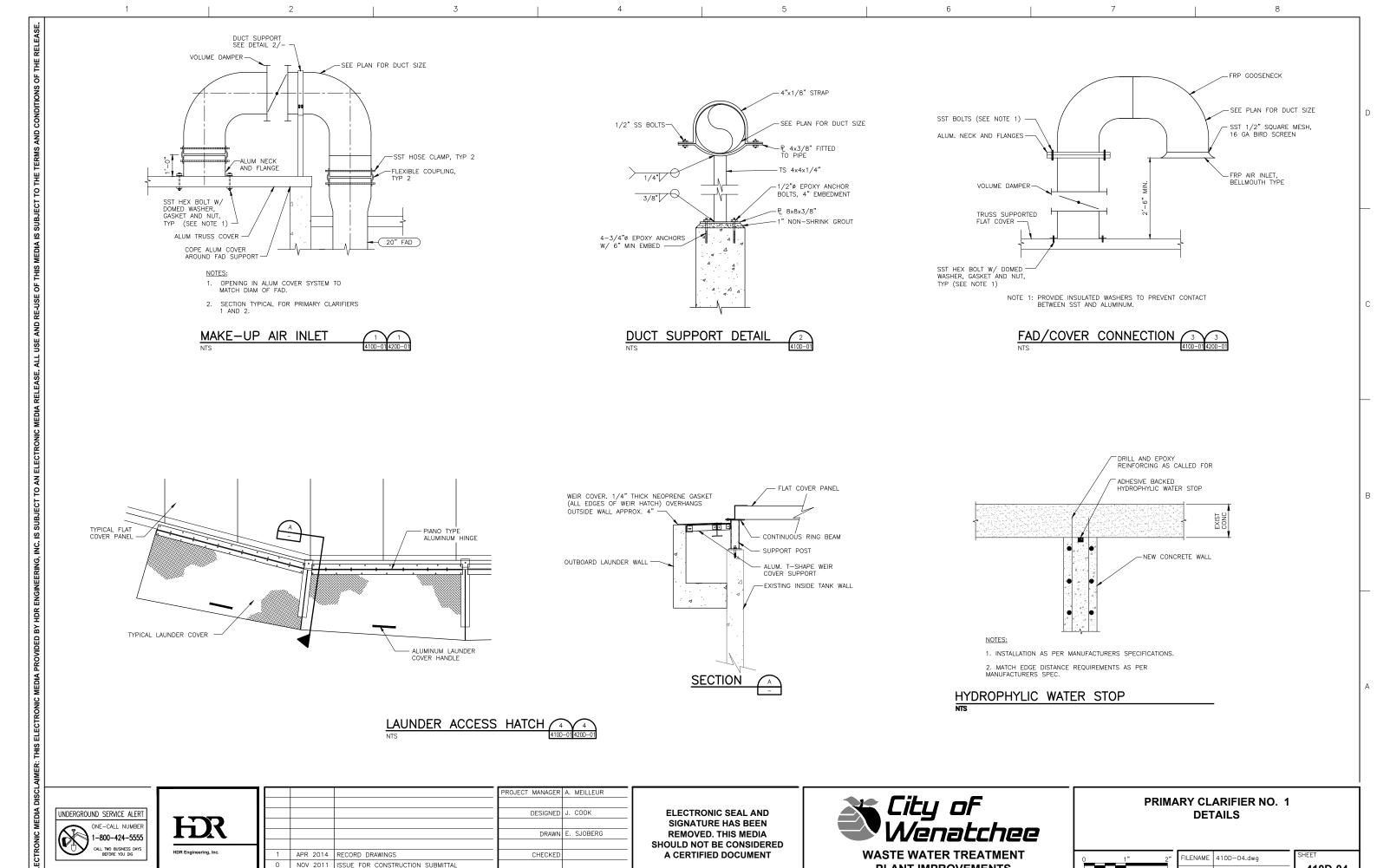












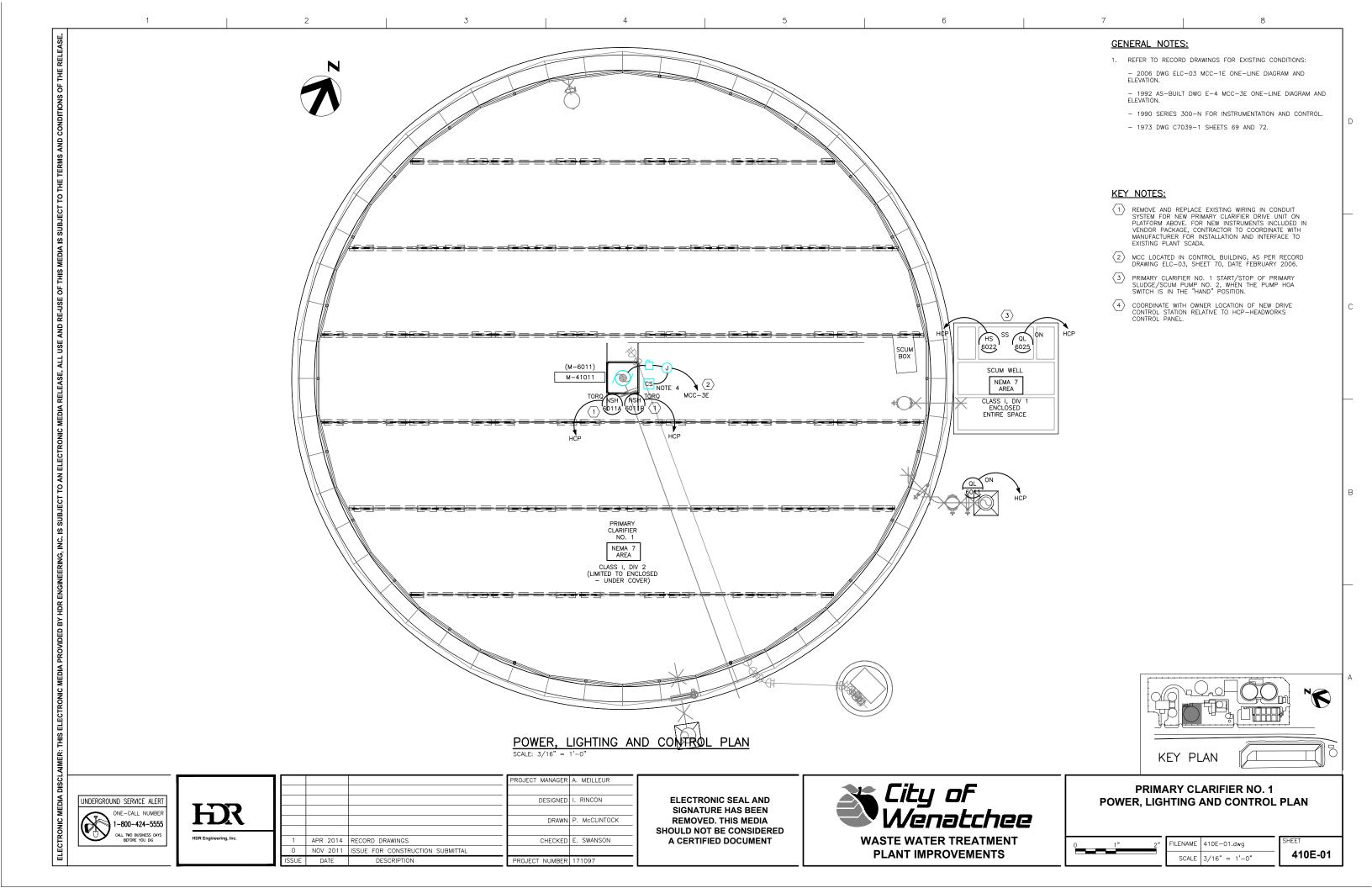
DATE

DESCRIPTION

PROJECT NUMBER 171097

PLANT IMPROVEMENTS

410D-04



- DEMOLISH AND REMOVE EXISTING ACCESS PLATFORM HANDRAIL. SALVAGE TO THE OWNER AND RE-ROUTE SPRAY NOZZLES AND PIPING PER DRAWING 420D-01



GENERAL NOTES:

- 1. CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT AND PIPING NOT SHOWN TO BE REMOVED.
- 2. ALL EQUIPMENT, PIPING, AND CONCRETE DESIGNATED FOR REMOVAL SHALL BE PROPERLY DISPOSED OF OFF—SITE BY CONTRACTOR.
- 3. SEE SPECIFICATION SECTION 01010 FOR CONSTRUCTION SEQUENCING DETAILS.

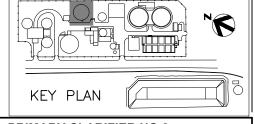
REMOVE HANDRAIL AND ALL APPURTENANCES -



- CUT TOP OF LAUNDER WALL
AS NECESSARY TO INSTALL
COVER AT ELEVATION 644.93.
COORDINATE DIMENSIONS WITH
COVER MANUFACTURER. EXISTING
WALL ELEVATION IS APPROXIMATELY 647.2

PHOTO

<u>PLAN</u>





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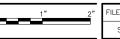


			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	J. COOK
			DRAWN	E. SJOBERG
1	APR 2014	RECORD DRAWINGS	CHECKED	
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	171097

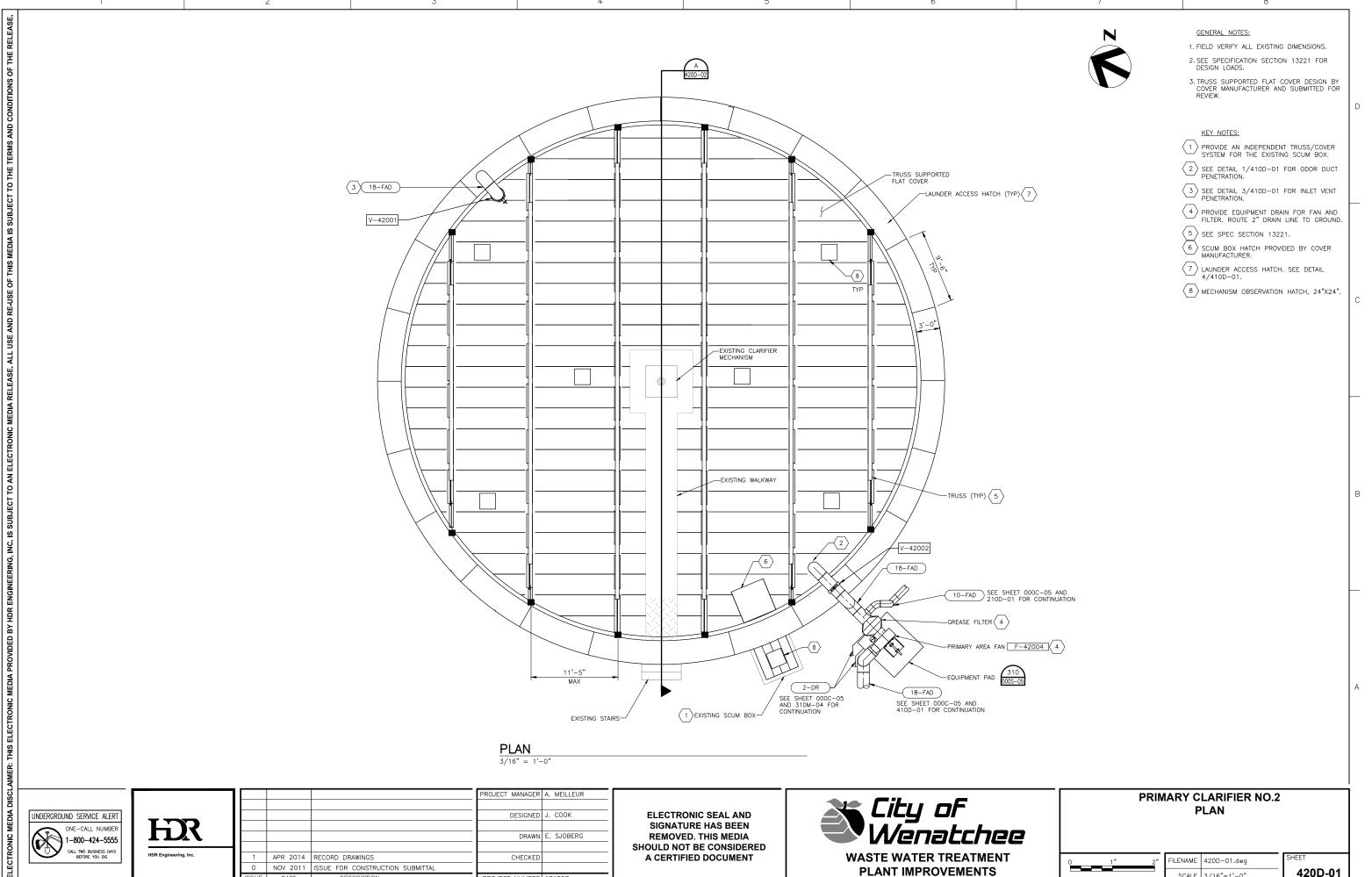
ELECTRONIC SEAL AND SIGNATURE HAS BEEN **REMOVED. THIS MEDIA** SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT



PRIMARY CLARIFIER NO.2 **DEMOLITION PLAN**



SHEET	420X-01.dwg	LENAME
420X-01	3/16"=1'-0"	



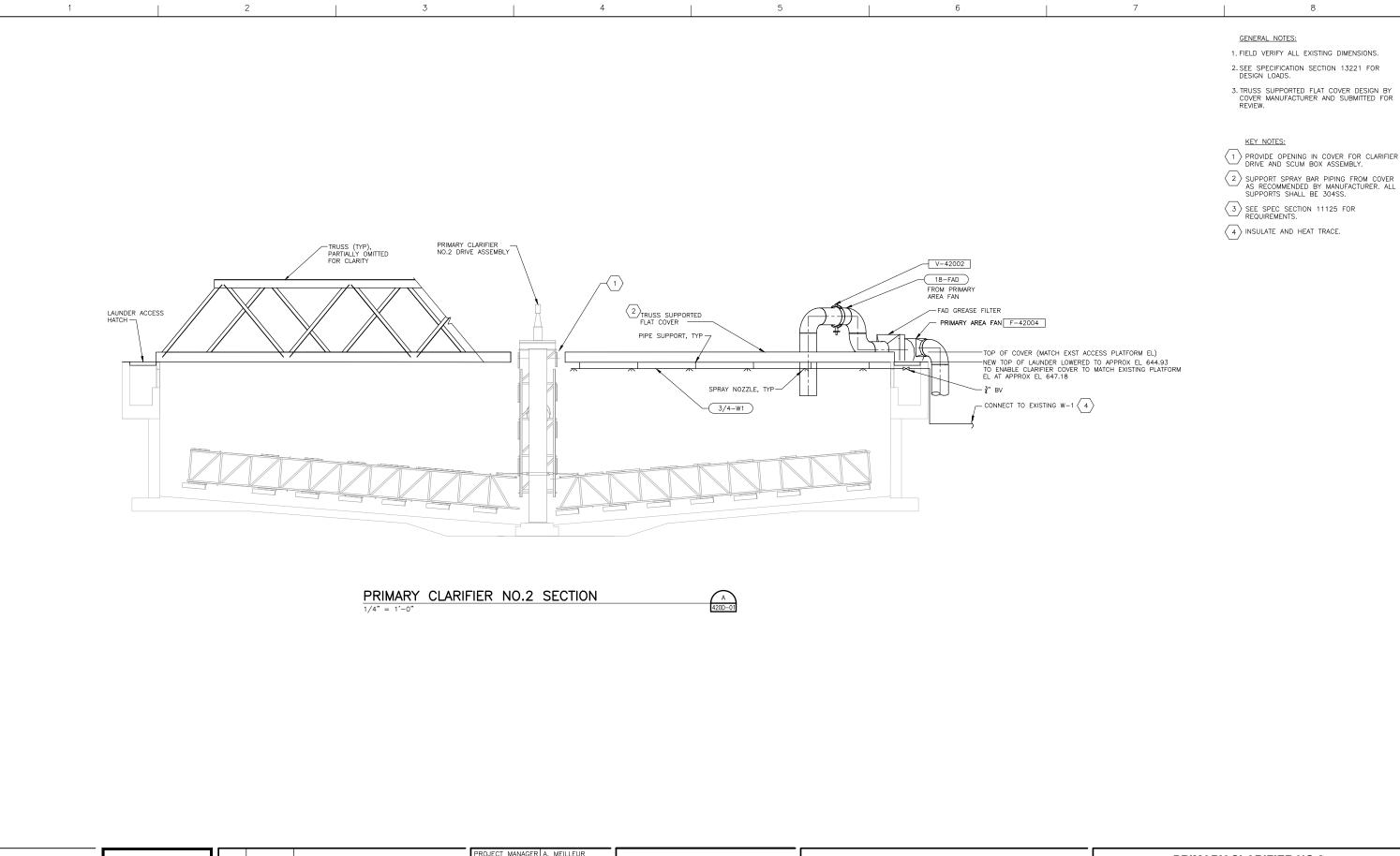
ISSUE DATE

DESCRIPTION

PROJECT NUMBER 171097

420D-01

SCALE 3/16"=1'-0"



UNDERGROUND SERVICE ALERT

ONE-CALL NUMBER

1-800-424-5555

CALL TWO BUSINESS DAYS
BEFORE YOU DIG

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ı	1	APR 2014	RECORD DRAWINGS	
	0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL	
	ISSUE	DATE	DESCRIPTION	PRC

DESIGNED J. COOK

DRAWN E. SJOBERG

CHECKED

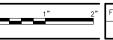
COJECT NUMBER 171097

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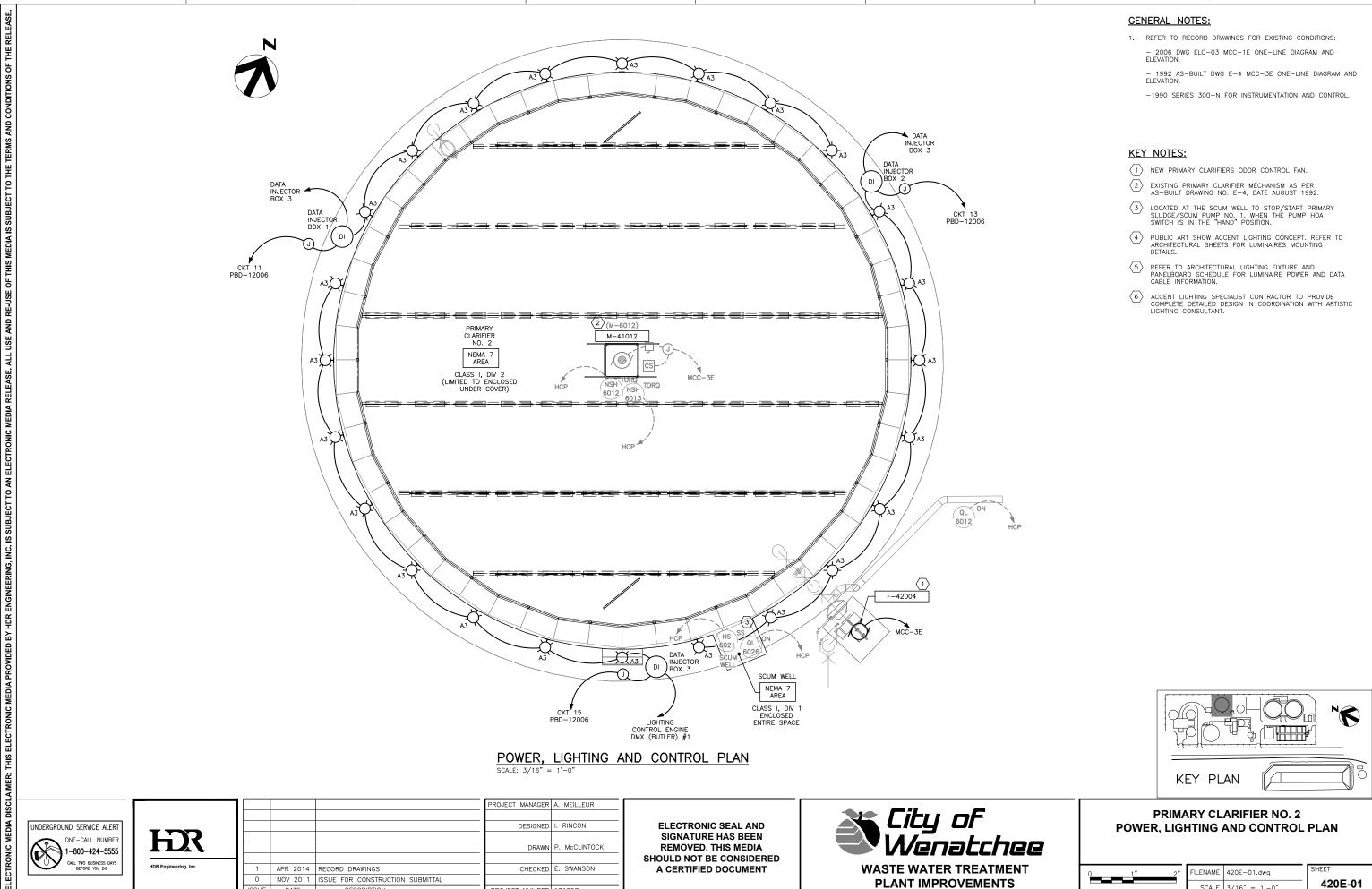
PLANT IMPROVEMENTS

PRIMARY CLARIFIER NO.2 PIPING PLAN



FILENAME	420D-02.dwg
SCALE	1/4"=1'-0"

420D-02

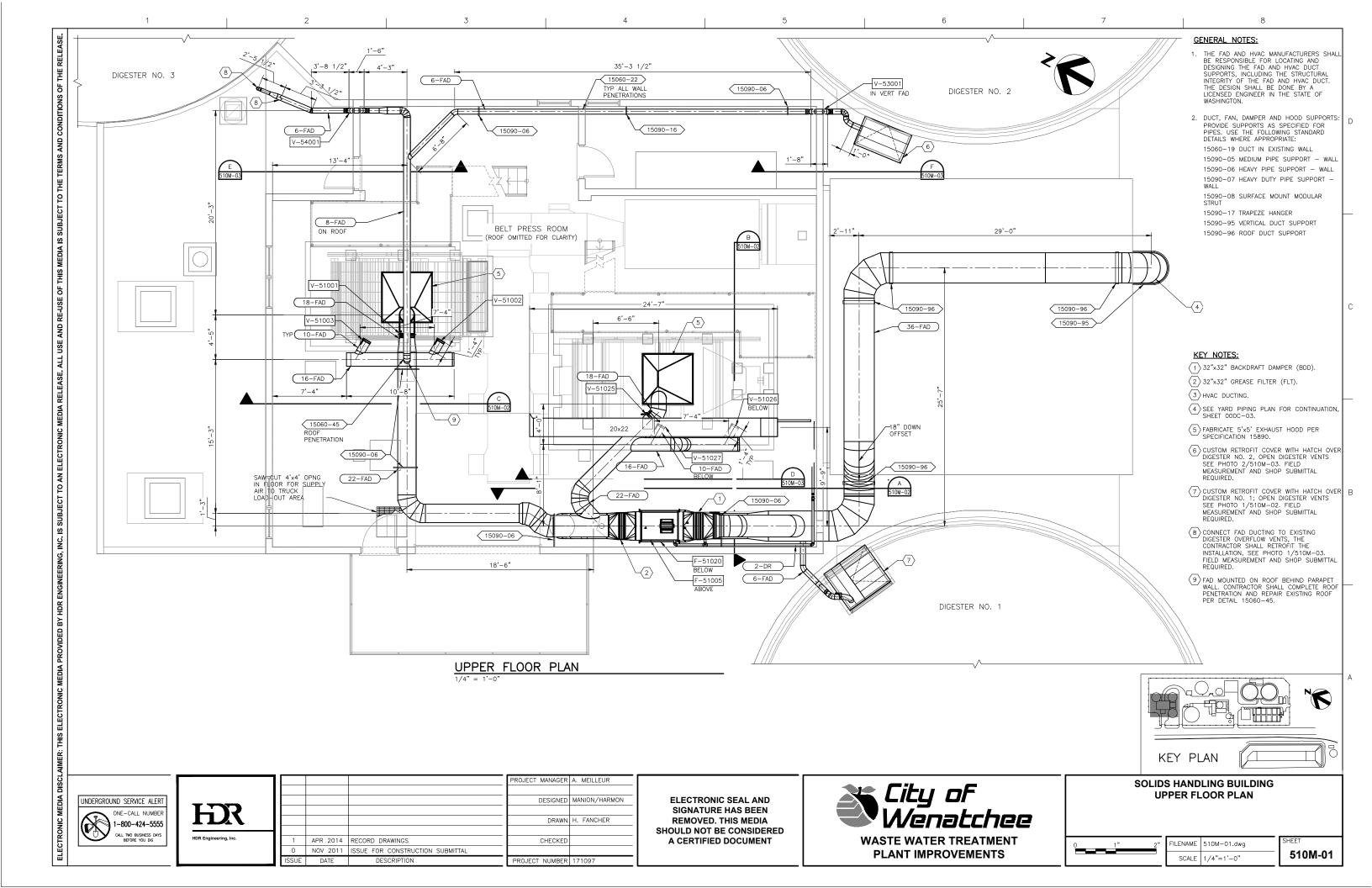


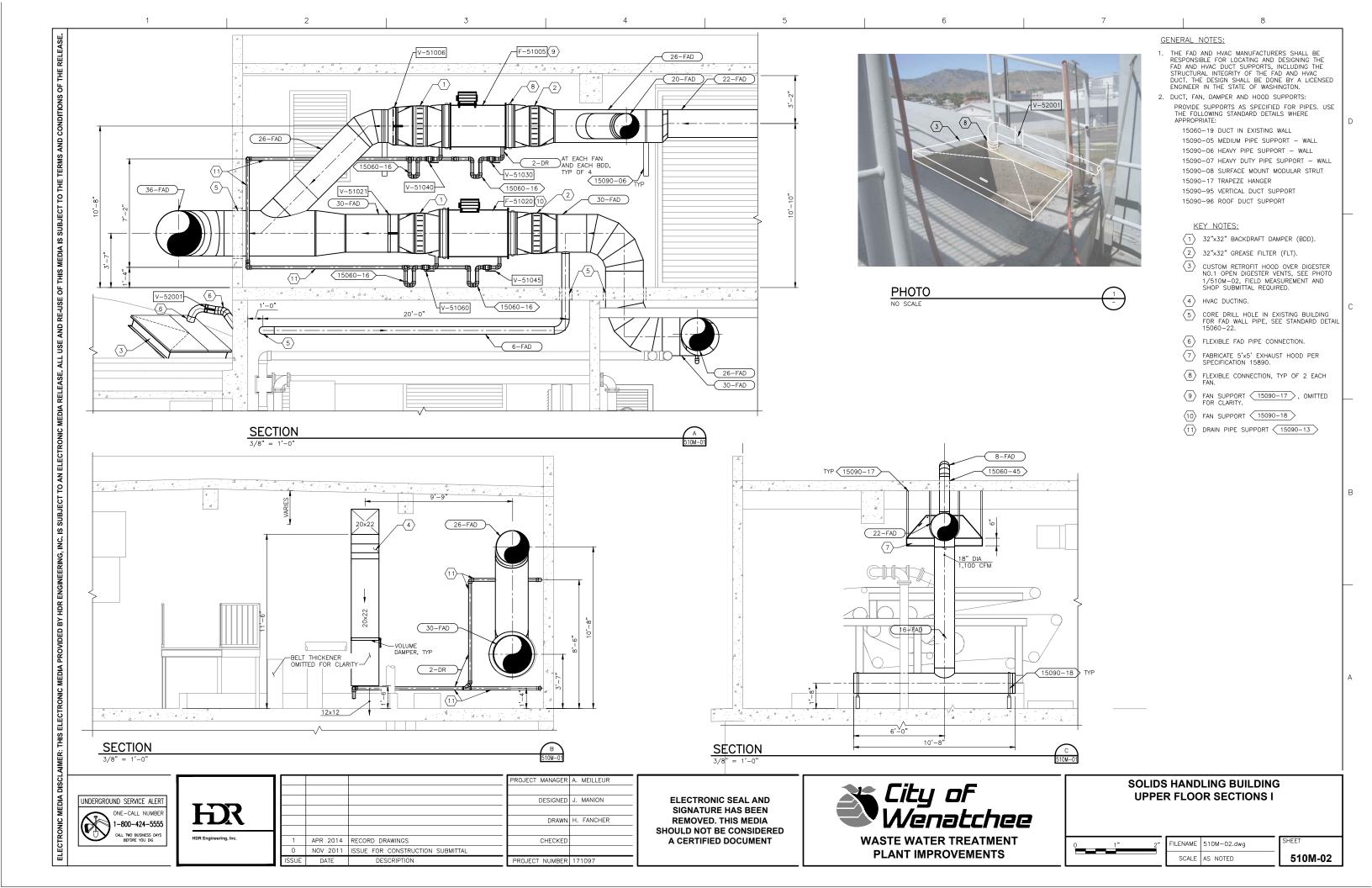
ISSUE DATE

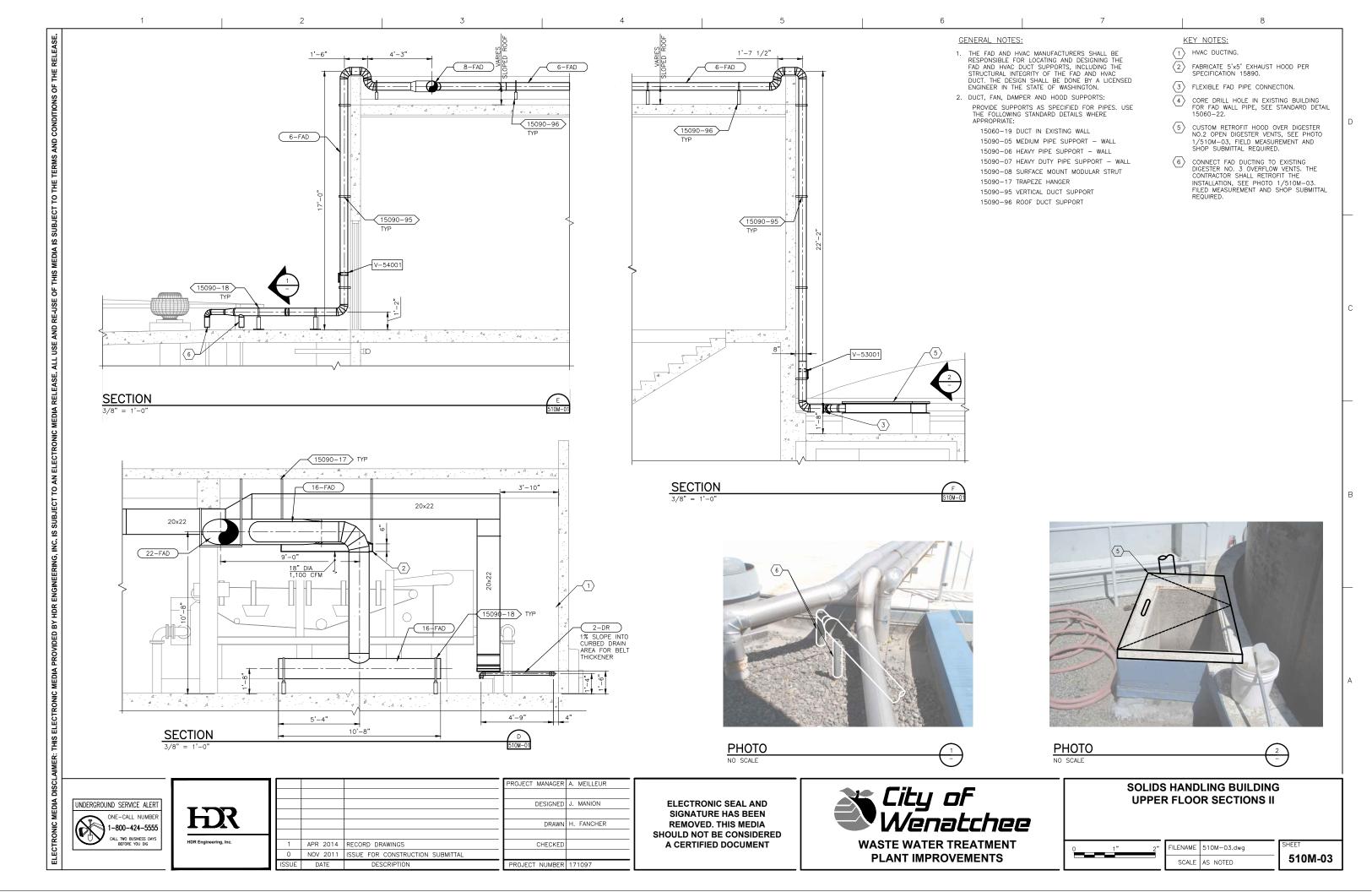
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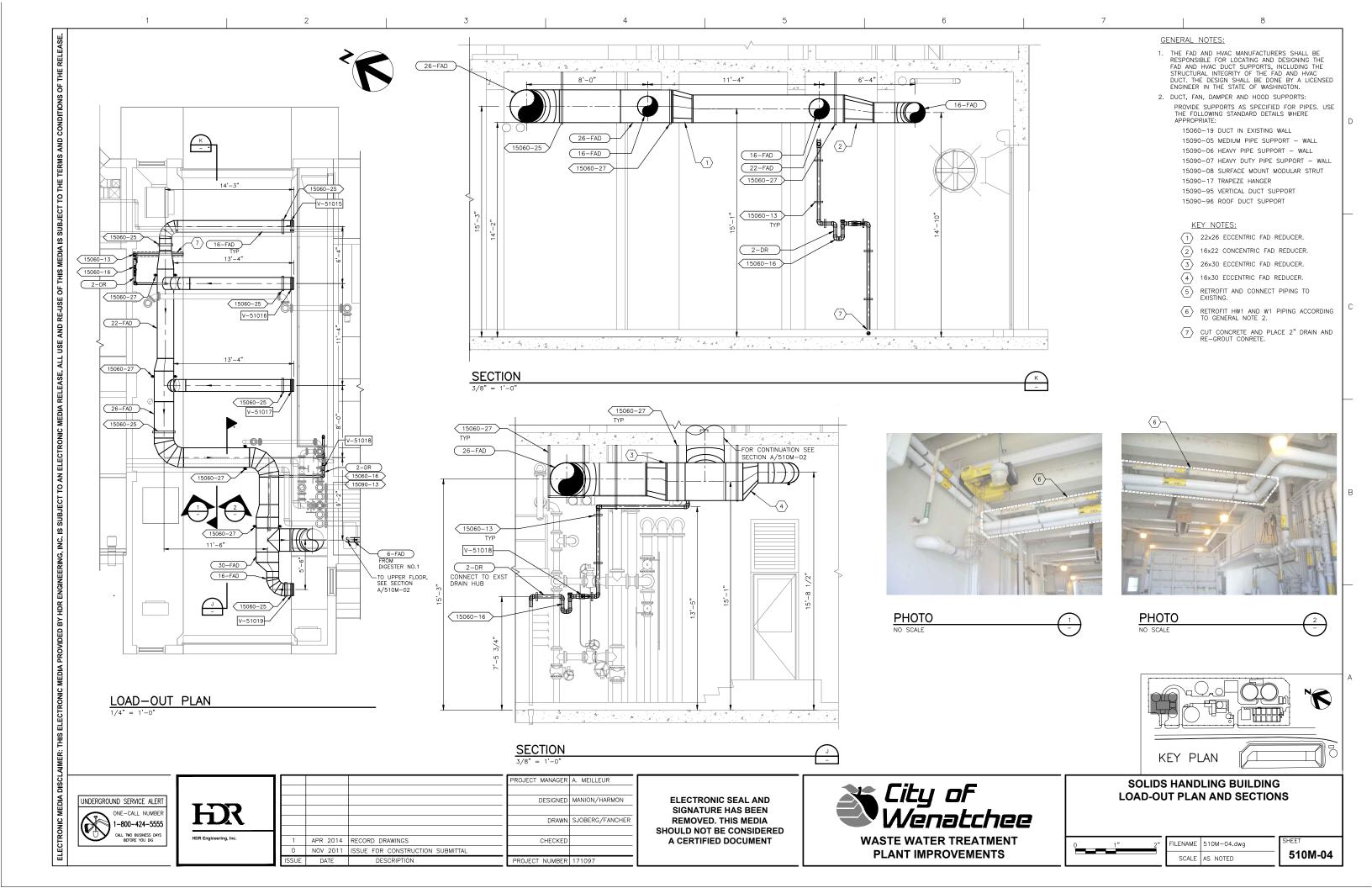
PROJECT NUMBER 171097

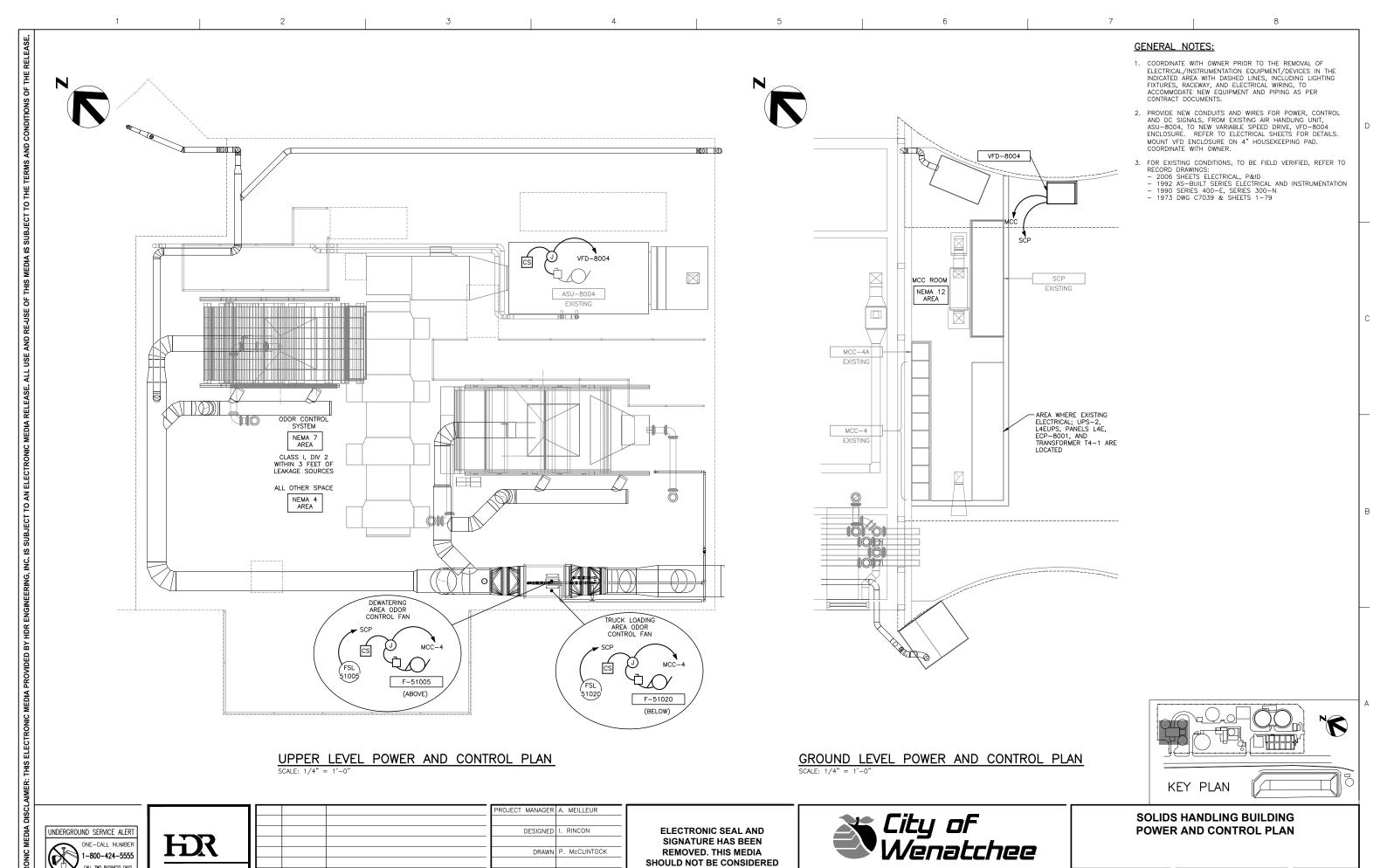
SCALE 3/16" = 1'-0"











A CERTIFIED DOCUMENT

WASTE WATER TREATMENT

PLANT IMPROVEMENTS

E. SWANSON

CHECKED E

PROJECT NUMBER 171097

APR 2014 RECORD DRAWINGS

ISSUE DATE

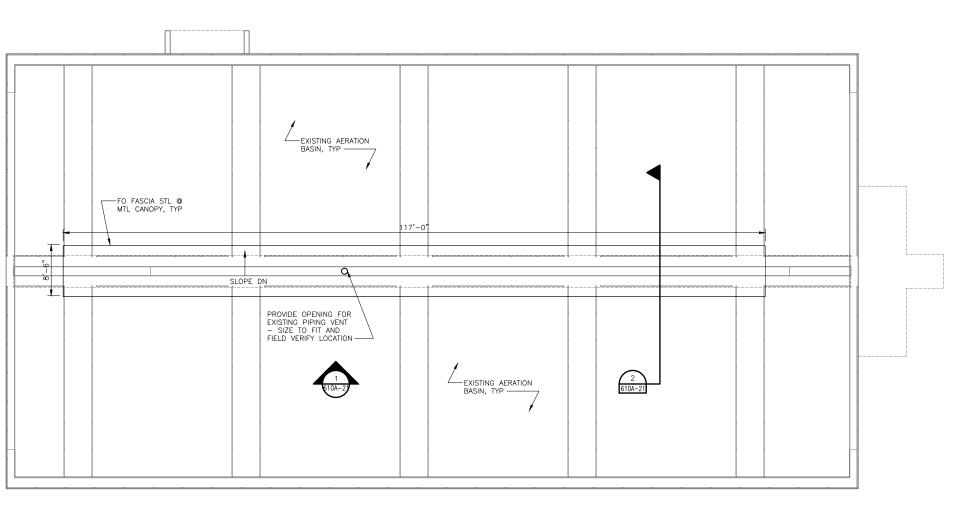
NOV 2011 ISSUE FOR CONSTRUCTION SUBMITTAL

DESCRIPTION

FILENAME 510E-01.dwg

SCALE 1/4" = 1'-0"

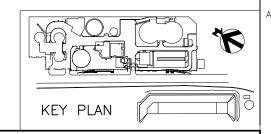
510E-01



CANOPY PLAN

1/8" = 1'-0"

000A-02



UNDERGROUND SERVICE ALERT

ONE-CALL NUMBER

1-800-424-5555

CALL TWO BUSINESS DAYS
BEFORE YOU DIG

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			PROJECT MANAGER	A. MEILLEUR
			DESIGNED	D. HOGAN
			DRAWN	J. ZHAO
1	APR 2014	RECORD DRAWINGS	CHECKED	
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	171097

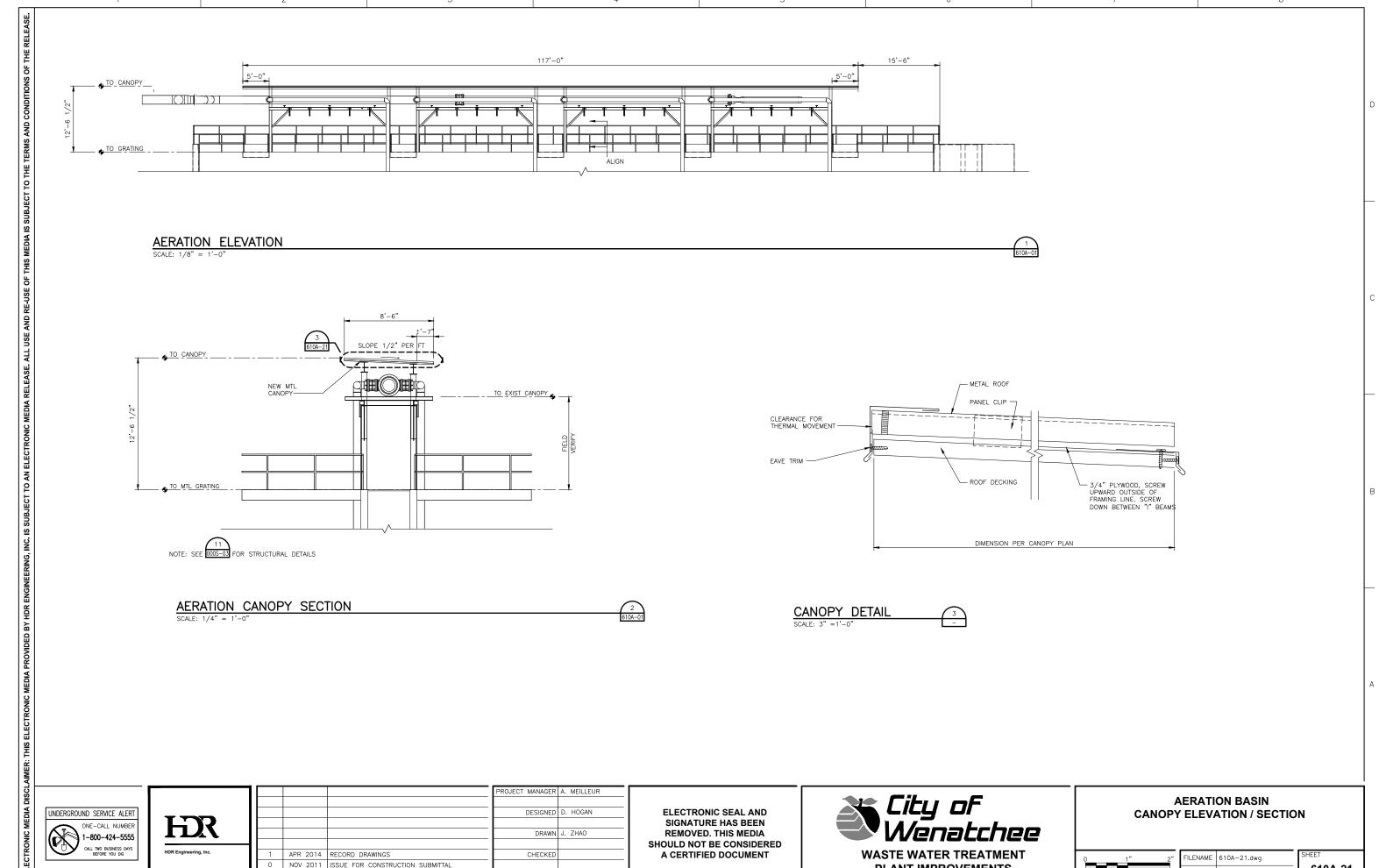
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ARCHITECTURE AERATION CANOPY PLAN

1" 2"	FILENAME
	SCALE

Ε	610A-01.dwg	SHEET
E	1/8"=1'-0"	610A-01



ISSUE DATE

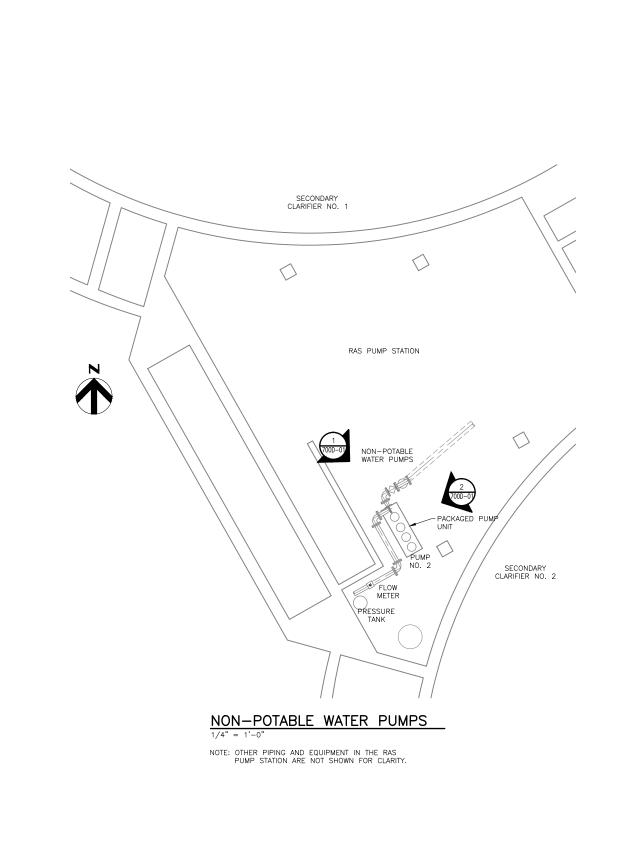
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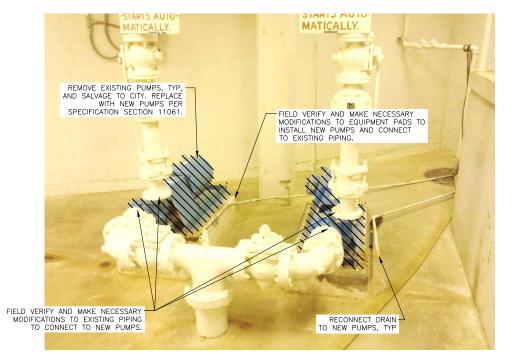
PROJECT NUMBER 171097

PLANT IMPROVEMENTS

610A-21

SCALE AS NOTED





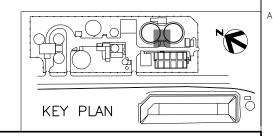
DETAIL PHOTO





DETAIL PHOTO





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1-800-424-5555

CALL TWO BUSINESS DAYS

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1	APR 2014	RECORD DRAWINGS
0	NOV 2011	ISSUE FOR CONSTRUCTION SUBMITTAL
ISSUE	DATE	DESCRIPTION

.	PROJECT MANAGER	A. MEILLEUR
ı		
I	DESIGNED	S. CHILUKURI
I		
I	DRAWN	B. LILLY
I		
I	CHECKED	J. KOCH
I		
I	PROJECT NUMBER	171097

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PLANT IMPROVEMENTS

SECONDARY CLARIFIERS
NON-POTABLE WATER PUMPS DETAILS

0 1" 2" FIL

SHEET	700D-01.dwg	FILENAME
700D-01	NOT TO SCALE	SCALE

